

sapa:

R | **72^{TT CE}**
SYSTEM

Finestre e porte a battente a taglio termico
Casement windows and doors with thermal break

About the Sapa Group

Sapa develops, manufactures and markets value added profiles, profile-based building systems and heat-exchanger strip in the light-weight material aluminium and is one of the world's leading manufacturers.

Sapa's business concept is based on close co-operation with its customers, who are primarily located in Europe, North America and Asia. The largest customer segments are the construction, transport, domestic and office, and engineering sectors.

Sapa is organised into six Business Areas: Profiles North Europe, Profiles Central Europe, Profiles South Europe, Profiles North America, Building System and Heat Transfer.

Sapa Profiles

Sapa is the world's leading producer of extruded aluminium profiles and maintains extensive operations in the value-added fabrication of profiles.

The company has 111 presses and more than 12.000 employees and production facilities in 18 countries: Belgium, China, Denmark, France, Germany, Hungary, Italy, Lithuania, Mexico, the Netherlands, Poland, Portugal, Romania, Slovakia, Spain, Sweden, the United Kingdom and the United States, plus sales representation in a number of additional countries.

With footprints in North and Central America, Europe and Asia we can serve customers on a worldwide basis.

Sapa Profili Srl

With 3 plants in Italy and the support of the rest of the group, Sapa Profili Srl is one of the largest extrusion companies within Italy.

Soft- and hard-alloy aluminium extrusions, standard rod and bars, seamless tube (round or shaped), simple or complex aluminium extrusion profiles (drawings), high fin ratio, tight tolerances with superior surface finish quality, or other demanding high-tech applications... There is a simple solution to almost any design problem: aluminium profiles by Sapa. The solutions are based on our unique experience in extrusion and our focus on the local market.

Sapa Profili Srl strategy is providing its customers with expertise, high quality and resources, releasing capacity to allow them to concentrate on their core operations. It's all about creating competitive, comprehensive solutions.

Il gruppo Sapa

Sapa sviluppa, produce e commercializza profili a valore aggiunto, profili per l'edilizia e scambiatori di calore in alluminio. Sapa è un leader tra i produttori nel mondo.

Un elemento determinante per il concetto di business di Sapa è la stretta collaborazione con il cliente maggiormente basati in Europa, Nord America ed Asia. I segmenti di mercato maggiori sono quelli dell'edilizia, il settore trasporti, casa ed uffici ed il settore della meccanica.

La Sapa è suddivisa in sei aree: Profili Nord Europa, Profili Europa centrale, Profili Sud Europa, Profili Nord America, Sistemi per l'edilizia ed il settore per gli scambiatori di calore.

Sapa Profili

Sapa è il maggior produttore di profili estrusi al mondo.

Questa nuova azienda dispone di 111 presse con oltre 12.000 dipendenti e con centri di produzione in 18 paesi: Belgio, Cina, Danimarca, Francia, Germania, Ungheria, Italia, Lituania, Messico, Olanda, Polonia, Portogallo, Romania, Slovenia, Spagna, Svezia, Gran Bretagna e negli stati uniti oltre ad avere rappresentanti commerciali in altri paesi.

Grazie alla presenza in America del Nord e Centrale, Europa ed Asia, possiamo servire i clienti in tutto il mondo.

Sapa Profili Srl

Con i 3 stabilimenti produttivi in Italia ed il supporto del resto del gruppo la Sapa Profili Srl diventa uno dei maggiori estrusori in Italia.

Estrusioni di alluminio in lega leggera o dura, profili standard o barrame, tubi tondi o a disegno senza saldature, profili estrusi semplici o complessi a disegno, elevato rapporto di atteratura, tolleranze ristrette con qualità superficiale elevata o qualsiasi altra esigenza per applicazioni high tech... esiste una semplice soluzione a quasi tutte le esigenze di design: profili in alluminio Sapa. Le soluzioni basano sulla nostra esperienza unica e focalizzata sul mercato locale..

La strategia di Sapa Profili Srl è quella di fornire al cliente competenza, qualità superiore e risorse, per permettere loro di concentrarsi sulle proprie operazioni essenziali. Plasmiamo il futuro creando soluzioni comprensive e competitive.



Innovation and Experience: Sapa keys to Build The future

Since its beginnings Sapa has been recognized as an innovator. Through the years, we've balanced experience with innovation. We've listened to our customers, and we are dedicated to providing the tools our customers need to succeed.

Following this spirit, in the market of B&C Sapa offers a comprehensive line of architectural aluminum building products and systems for residential and non-residential buildings framing systems, windows and curtain wall systems.

Due to the accurate product design, in the B&C market, the Sistema R allows the realization of windows and doors with the less possible manufacturing, reducing so the assembling time and achieving the best quality.

This system is present in the South European market since more than 20 years and has allowed Sapa to renovate it constantly with the experience acquired. In this way the Sistema R, the most widespread for windows and doors on the Italian market, has evolved with the most advanced esthetical and technological contents, as to satisfy all planning demands.

For this reason Sapa has realized, within the Sistema R, four continuous bar thermal break series with different sections and performances, all defined in dimensional, technological and esthetical versatility.



Innovazione ed esperienza: le chiavi Sapa per costruire il futuro.

Fin dalle sue origini, Sapa è stata riconosciuta come innovatrice. Attraverso gli anni, abbiamo equilibrato l'esperienza con l'innovazione. Abbiamo ascoltato i nostri clienti e ci siamo dedicati a fornir loro i mezzi necessari per avere successo.

Seguendo questo spirito, nel mercato dell'edilizia, Sapa offre una completa linea di prodotti architettonici in alluminio e sistemi strutturali per edifici residenziali e non, finestre e pareti divisorie.

Nel mercato dell'edilizia, Il sistema R, grazie all'attenta progettazione, consente di realizzare serramenti in alluminio con il minor numero di lavorazioni possibili, riducendo i tempi di assemblaggio nel rispetto della migliore qualità.

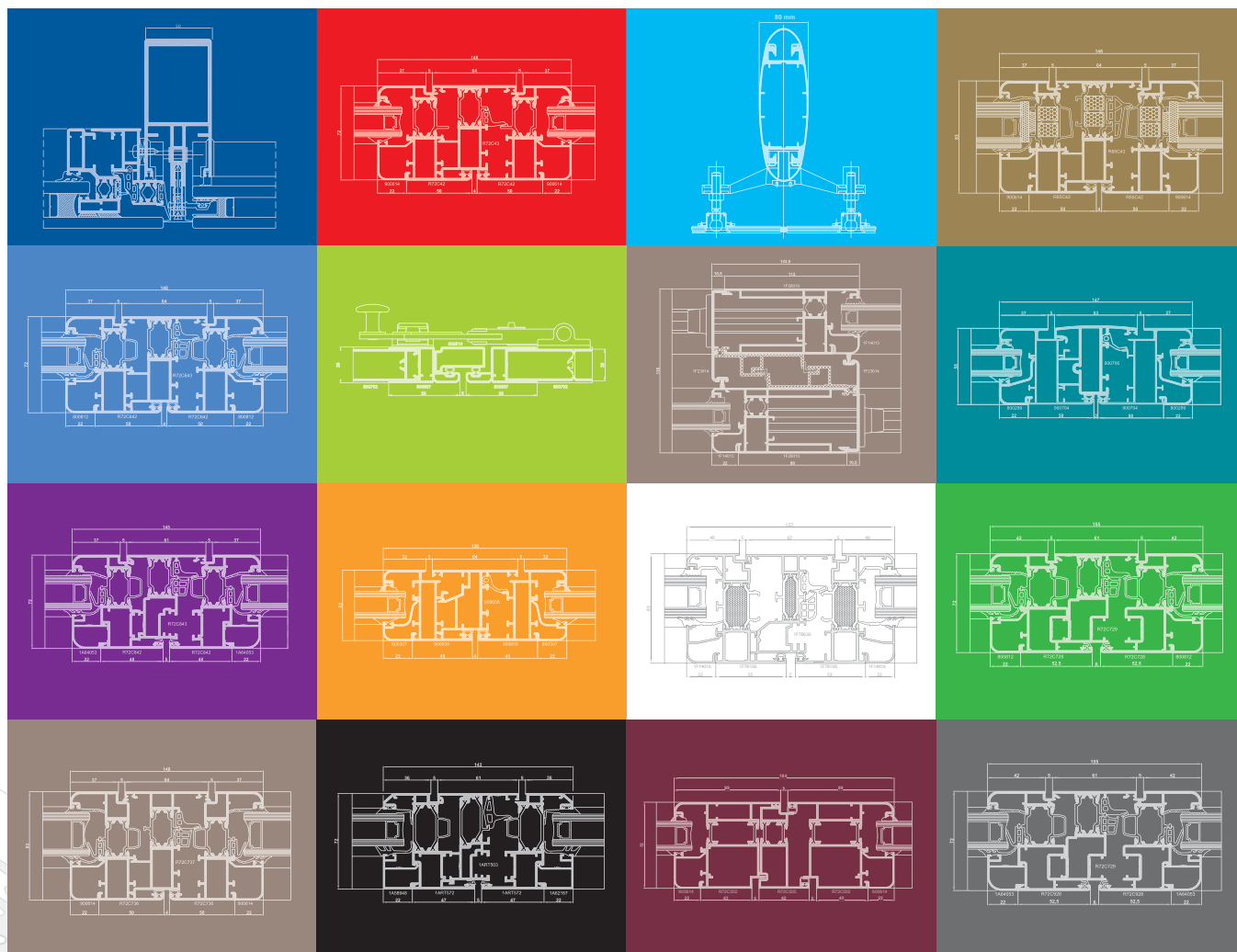
La pluri decennale presenza sul mercato sud europeo di questo sistema ha permesso a Sapa di rinnovarlo costantemente nel tempo utilizzando l'esperienza acquisita negli anni. In questo modo il sistema R, il più diffuso e venduto, per porte e finestre, sul mercato italiano, si è arricchito dei più avanzati contenuti estetici, tecnologici e funzionali atti a soddisfare tutte le esigenze costruttive e progettuali.

Per questo Sapa ha realizzato, all'interno del sistema R, quattro serie di profilati a taglio termico a barra continua con diverse sezioni e prestazioni, tutte caratterizzate da polivalenza dimensionale, tecnologica ed estetica.



Original Systems®
sapa:

Le serie dei sistemi di Sapa



Scegliere con **serenità**

sapa:
Creiamo il futuro

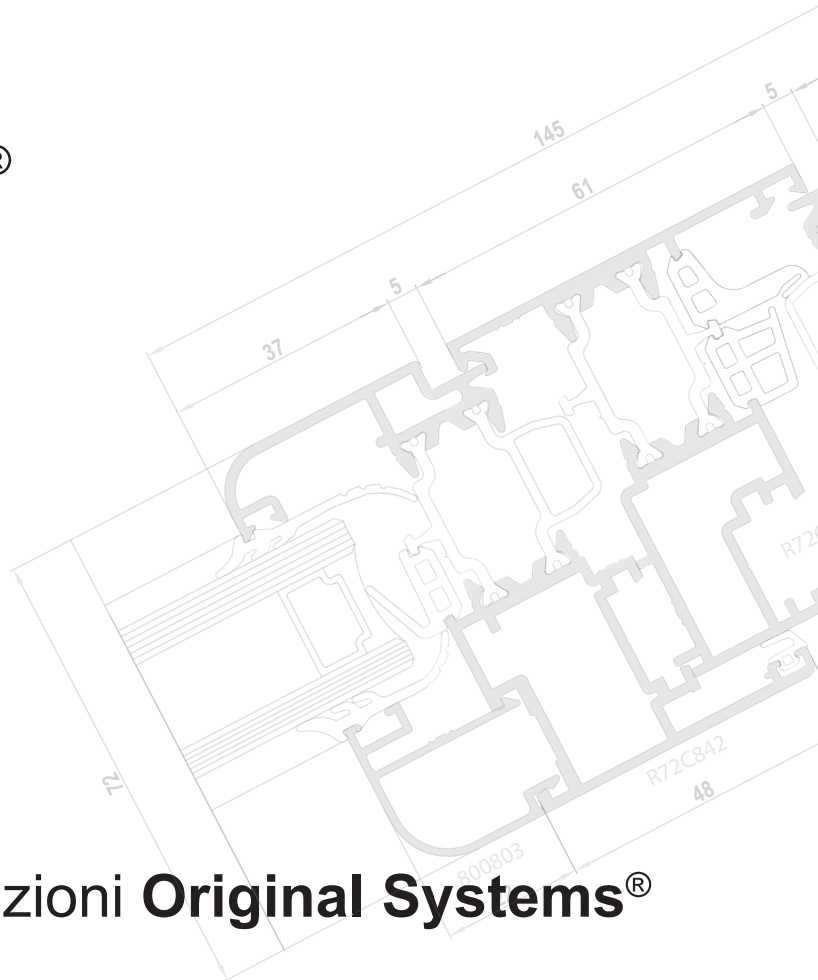
sapa:

Original Systems®

... scegliere con serenità

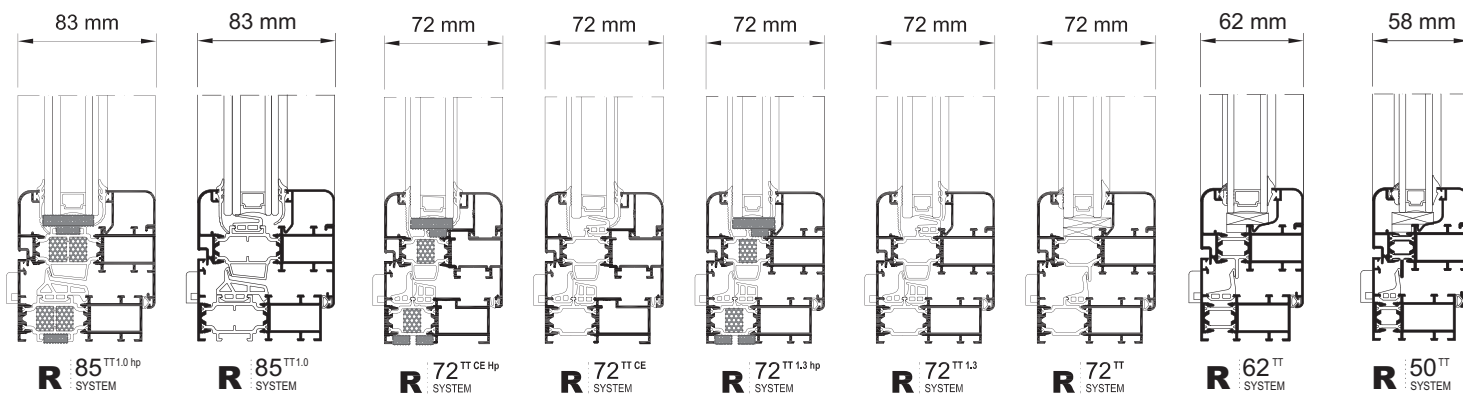
Original Systems Sapa non è soltanto un profilo in alluminio: è una soluzione completa per tutti gli attori della filiera, con l'obiettivo di fornire il miglior prodotto, col più alto valore aggiunto, dalla bauxite al serramento.

L'assistenza tecnica pre e post vendita, i certificati delle prestazioni dei serramenti, la formazione della Scuola del Serramento di Bareggio (MI), i software di calcolo, le soluzioni Autocad, gli opuscoli tecnici, i cataloghi, la comunicazione ed una capillare e competente Rete di Distribuzione Original Systems Sapa vi danno la serenità di aver fatto la scelta migliore.

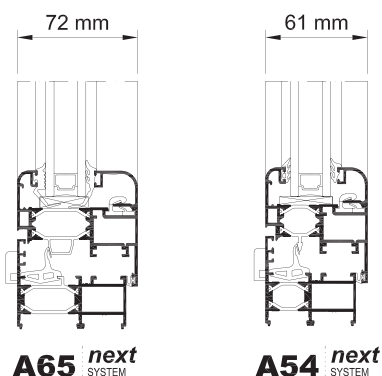


soluzioni Original Systems®

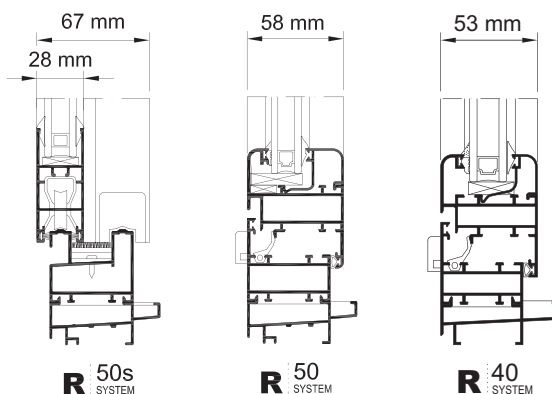
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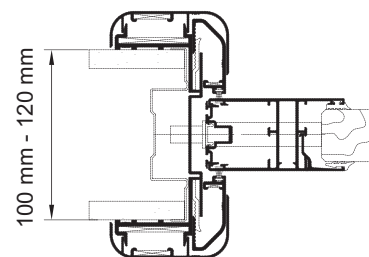
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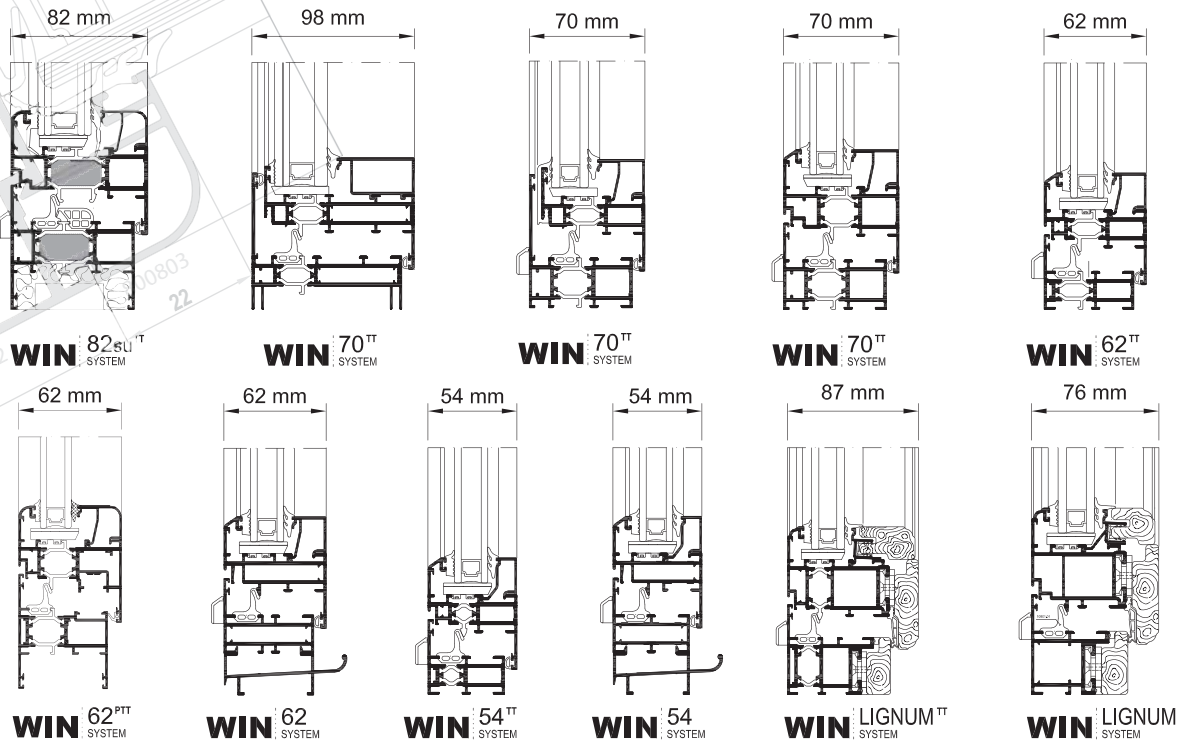
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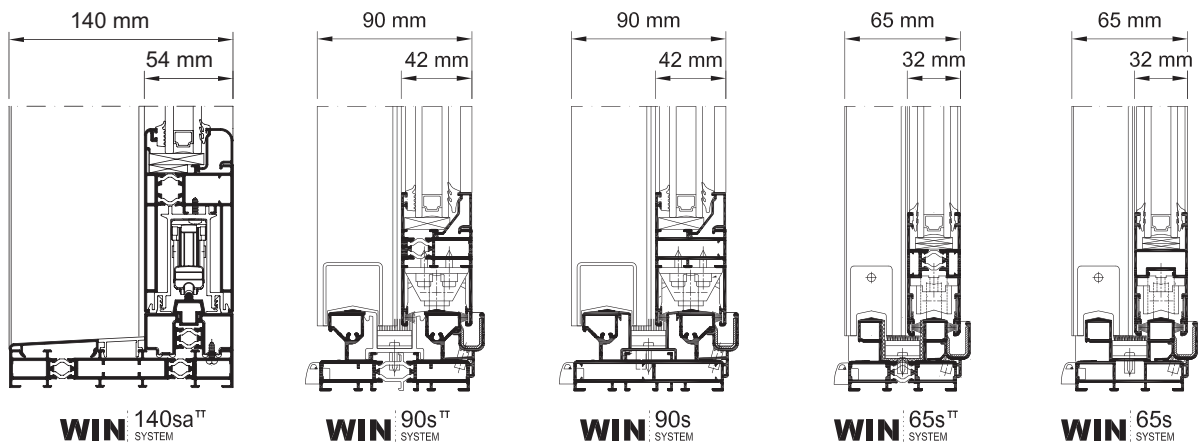
Mr. Hide SYSTEM



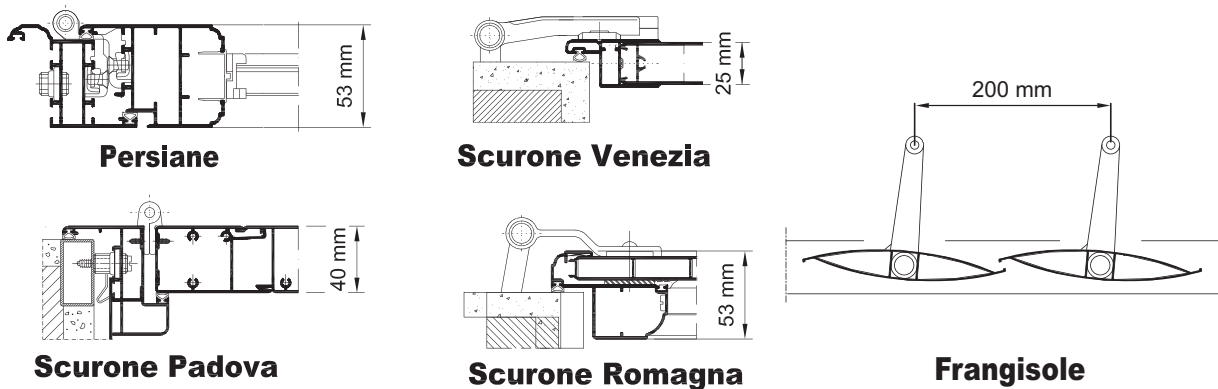
Teknowindow Battente

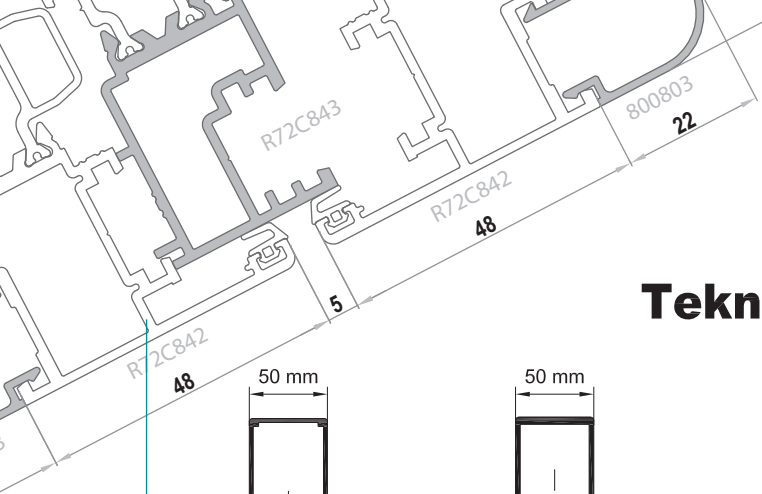


Teknowindow Scorrevole

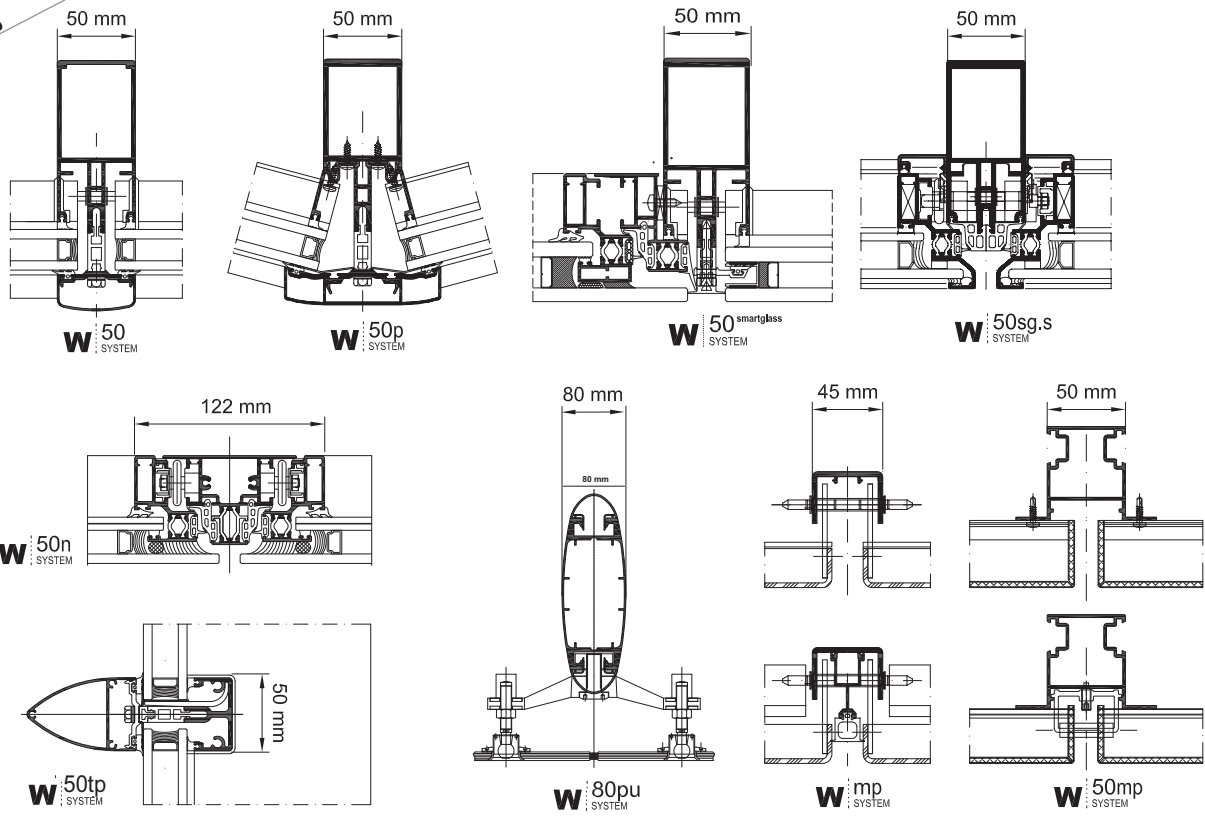


Sistemi Oscuranti

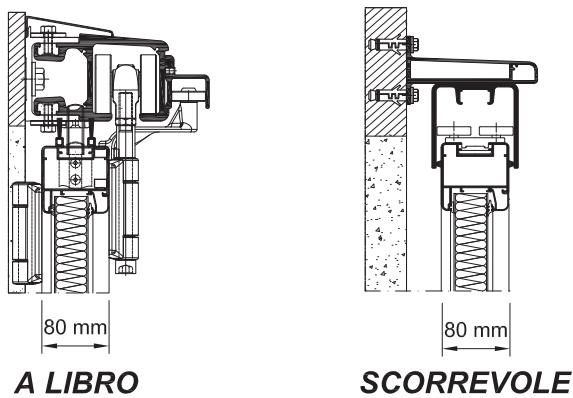




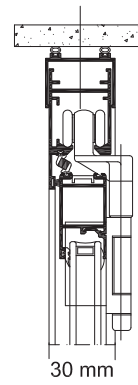
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Portoni

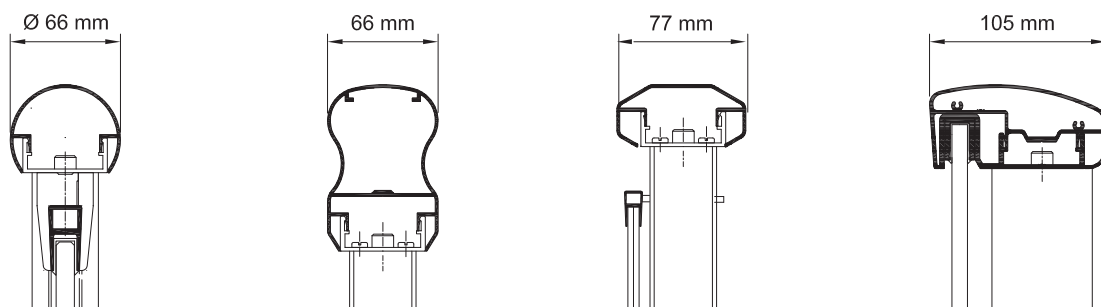


Veranda a Libro



GR 14 SYSTEM

plus® SYSTEM



RINGHIERE E BALCONI

Il sistema

Il Sistema R a taglio termico è composto da sei serie di profilati:
R50TT, con telaio fisso da 50 mm ed anta mobile da 58 mm
R62TT, con telaio fisso da 54 mm ed anta mobile da 62 mm
R72TT, con telaio fisso da 64 mm ed anta mobile da 72 mm
R72TT1.3, con telaio fisso da 64 mm ed anta mobile da 72 mm
R72TTCE, sistema a "Camera Europea", con telaio fisso da 64mm ed anta mobile da 72mm
R85TT1.0, con telaio fisso da 75 mm ed anta mobile da 83 mm

I Profilati:

Estrusi in lega di alluminio primario da lavorazione plastica EN AW 6060 UNI-EN 573-3 sottoposti ad un processo di trattamento termico applicato secondo Normativa UNI EN 755-2 (bonifica con tempra in aria alla pressa, seguita da invecchiamento artificiale) per ottenere lo stato T5. Per dettagli tecnici vedere pagina F1-72CE-A-08

Trattamenti superficiali:

I trattamenti superficiali di ossidazione anodica, elettrocolorazione e di verniciatura eseguiti negli impianti di proprietà Sapa, sono nel rispetto di quanto previsto dalle normative richieste dai marchi Qualanod (per ossidazione) e Qualicoat (per la verniciatura).

Vetratura:

La scelta ed il tipo di vetro sarà in funzione del suo campo di impiego, per il montaggio attenersi scrupolosamente alle prescrizioni dei produttori. Il Sistema consente l'inserimento di vetri aventi spessori da 6 a 39 mm per R50TT; da 10 a 43 mm per R62TT; da 20 a 53 mm per R72TT ed R72TT 1.3; da 14 a 52 per R72TT CE; da 26 a 62 per R85TT 1.0. Le guarnizioni di tenuta vetro sono in EPDM ed inseribili e sostituibili a serramento assemblato, studiate in vari spessori che, interpolati nel modo idoneo, garantiscono un'adeguata compressione sulla lastra di vetro. La tassellatura sarà effettuata con appositi tasselli di regolazione e spessoramento aventi posizioni nel serramento ideali e rinforzate. Solo la completa e totale osservanza della tecnica di vetratura potrà garantire uno scatto vincolante e sicuro del fermavetro e la garanzia di durata agli sforzi di normale utenza.

Calcolo dimensioni massime serramenti:

Nel definire le misure massime dei diversi tipi di serramento, si devono considerare oltre agli elementi costruttivi dell'infisso (sezione dei profili e loro campi d'impiego, tipo di attacco al muro, spessore e tipo del vetro), le caratteristiche di utilizzo, nonché le varianti metereologiche (esposizione dell'infisso, velocità dei venti agenti nella zona, altezza dal suolo alla quale sarà installato l'infisso, ecc.). Consigliamo a tal fine la consultazione delle prescrizioni Uncsaal.

Attrezzature:

Le attrezzature raccomandate (Comall e Tekna) sono state appositamente progettate e realizzate per le particolari caratteristiche del sistema e per l'applicazione specifica degli accessori a catalogo.

Peso dei profilati:

I pesi indicati sono puramente indicativi (peso teorico ricavato sullo spessore nominale del profilato); Le matrici di estrusione sono soggette ad un normale processo di usura che porta il peso dell'estruso da un minimo (matrice nuova) ad un massimo (matrice usurata al limite delle tolleranze dimensionali).

Tolleranze dimensionali

Per le tolleranze dimensionali si fa riferimento alla Normativa UNI EN 12020-2

NB:

Il mancato impiego, anche parziale, dei prodotti originali, esclude qualsiasi possibilità di rivalsa nei confronti di Sapa.

Al fine di migliorare i propri prodotti, Sapa si riserva la facoltà di apportare, in qualsiasi momento e senza preavviso, le modifiche che riterrà opportuno.

I dati riportati su questo catalogo sono indicativi e non impegnativi.

The system

The thermal break R system is made up of six series of section bars:
R50TT, with 50 mm fixed frame and 58 mm moving shutter
R62TT, with 54 mm fixed frame and 62 mm moving shutter
R72TT, with 64 mm fixed frame and 72 mm moving shutter
R72TT1.3, with 64 mm fixed frame and 72 mm moving shutter
R72TTCE, "European Chamber" system, with 64 mm fixed frame and 72 mm moving shutter
R85TT1.0, with 75 mm fixed frame and 83 mm moving shutter

The sections

These are extruded in primary aluminium alloy from EN AW 6060 UNI -EN 573-3 plastic manufacturing, subject to a thermal treatment, applied according to UNI EN 755-2 regulation (austempering through air tempering at the press, followed by artificial ageing) in order to achieve the T5 physical state.

For technical detail refer to page F1-72CE-A-08

Surface treatments:

The surface treatments of anodization, electrocoloration and painting carried out in Sapa Italy plants, respect the regulations required by the brands: Qualanod (for anodization) and Qualicoat (for painting).

Glazing:

The choice and the type of glass will depend on its final use. While assembling, it is essential to follow scrupulously the manufacturers' instructions. With this System it is possible to insert glass with thickness of 6 to 39 mm for R50TT; 10 to 43 mm R62TT; 20 to 53 mm for R72TT and R72TT 1.3; 14 to 52 for R72TT CE; 26 to 62 for R85TT 1.0. The weatherstrips for the glass containment is in EPDM and is conceived in different thickness. If interpolated in the correct way, it assures a proper compression on the glass. The plugging will be carried out through proper adjusting and shimming plugs, located in ideal and reinforced positions in the fastening. Only the full respect of the glazing technique will assure the proper functioning of the glass beading and will guarantee a long term resistance to the normal uses.

Window maximum dimensions

During the definition of the maximum dimensions of the different sorts of windows, beside the structural elements of the frame (section, uses, juncture to the wall, thickness and sort of glass), the final use and the weather conditions (exposure of the window frame, speed of the wind in the area, distance from the ground where the frame will be installed, etc.) have to be taken into account. To this purpose, we suggest to consult the Uncsaal regulations.

Equipment:

The recommended equipment (Comall and Tekna) has been planned and realized on purpose according to the particular characteristics of the system and to the specific application of the catalogue accessories.

Weight

Any weight is shown just as an indication (theoretical weight made out of the nominal thickness of the section) The extrusion dies are subject to the natural wear and tear, therefore the section weight varies from a minimum when the dies is new, to a maximum weight when the die is at highest dimensional tolerances limits.

Dimensional allowance

As for the dimensional allowance it is to refer to UNI EN 12020-2 Regulation.

NB:

Sapa declines any responsibility in case of use or partial use of non original products.

With the aim of improving it's products, Sapa reserves the possibility to make changes to this document at any moment and with no advise.

The data reported in this catalogue are indicative and not binding.

L'esecuzione del serramento dovrà prevedere tutte le operazioni necessarie per il buon funzionamento del "componente finestra" quali la sigillatura e il bloccaggio sicuro degli angoli, il fissaggio a muro adeguato e, necessariamente, l'utilizzo di accessori e guarnizioni originali. Le lavorazioni, proprio per garantire la giusta applicazione dei particolari, dovranno essere eseguite con attrezzature originali e collaudate sul sistema stesso. Gli scarichi dell'acqua e le asole di aerazione per vetri camera dovranno essere di dimensione e numero ottimale in funzione della dimensione e della tipologia del serramento.

The frame construction must include all the operations necessary for good working of the "window component", such as sealing and safe blocking of corners, suitable wall fixtures and the use of the original accessories and weatherstrips. In order to guarantee the correct application of the parts, works must be carried out with original equipment that has been tested on the system. The size and number of water drains and ventilation slots for double glazing must correspond to the size and type of window frame.

Attenzione

Nelle porte a taglio termico, nei casi in cui ci sia un'eccessiva variazione di temperatura, si possono generare, sulle ante, fenomeni di deformazione dovuta alla diversa dilatazione tra profilato esterno e profilato interno, con conseguente difficoltà di chiusura dell'anta stessa.

Ciò accade perché il sole riscalda i profilati esterni del serramento provocandone la dilatazione che risulta essere differente da quella del profilato interno non riscaldato dal sole, questo provoca delle tensioni che fanno deformare il profilato anta curvandolo verso l'esterno.

Non avendo più l'allineamento anta/telaio si hanno problemi di chiusura, nelle ore di maggiore esposizione si può riscontrare il bloccaggio e/o l'impossibile chiusura della porta.

Questo fenomeno si evidenzia in particolar modo quando si hanno porte d'ingresso con tamponamenti ciechi.

Ad oggi non esistono sistemi a taglio termico che risolvano totalmente il problema. Stiamo studiando, in collaborazione con i maggiori produttori di barrette, soluzioni che possano risolvere questo fenomeno nel prossimo futuro.

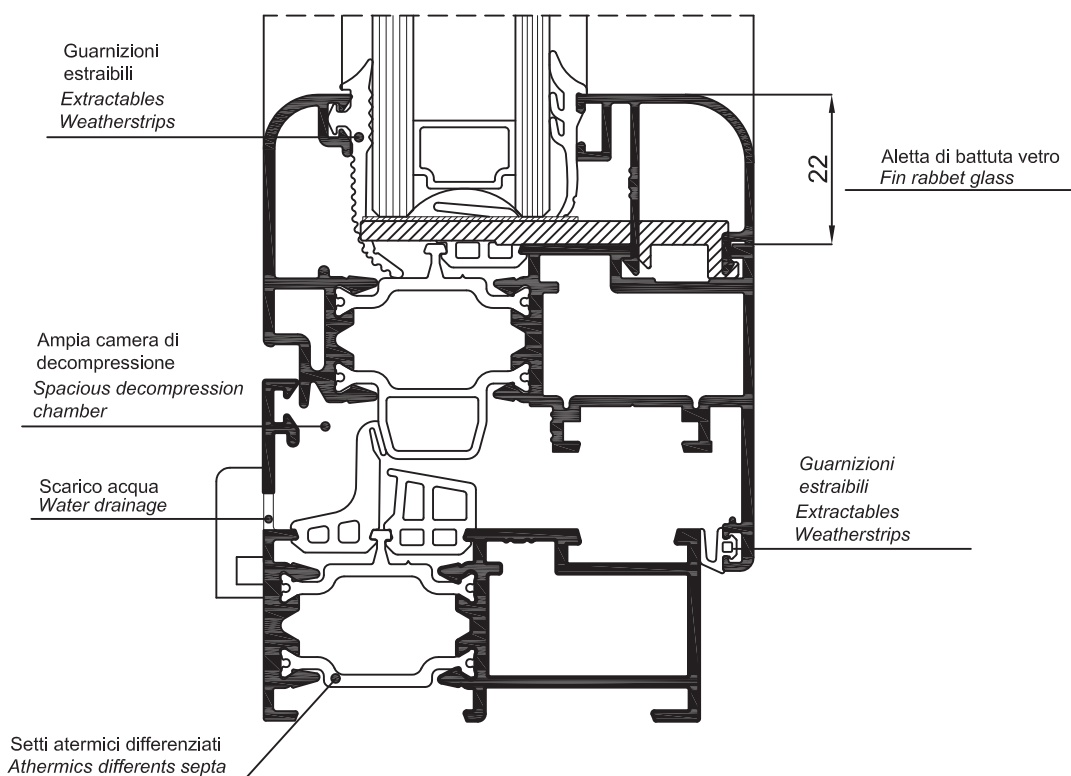
Oggi, per ridurre il problema, si possono adottare accorgimenti da valutare di volta in volta.

Attention

In case of sensitive variations of temperature in the Thermal break door solution, deformation of the wings can take place due to the diversified expansion of the internal and external profiles. This can bring to a difficult closing of the wing itself.

Deformation takes place because the sun heats the external profile of the window causing a dilatation which is different from the one of the internal profile. This causes tension that curve the wing profile to the external part. As the wing and the frame are no longer aligned there could be some difficulty in closing the doors. In the hottest hours of the day the door could stall, or it could be impossible to lock the door.

This phenomena is more common when the doors have non glass closures. Up to today there are no thermal break door systems which do not present this problem, although we are studying alternative solutions together with the biggest suppliers of polyamide bars.



ACCESSORI E GUARNIZIONI

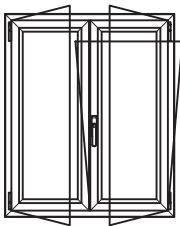
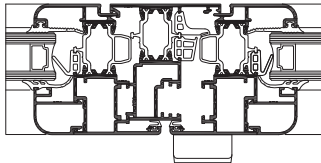
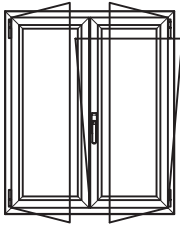
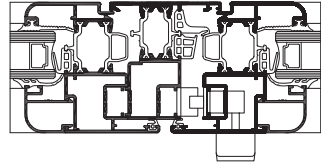
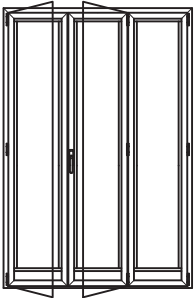
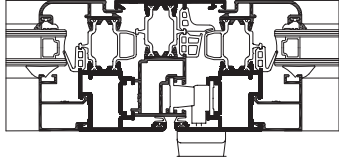
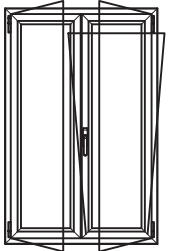
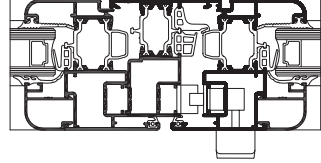
ACCESSORIES AND PACKING

Originali e marchi Sapa, con corpo in lega di alluminio, perni e viteria in acciaio inox, le boccole e i particolari di scorrimento sono in poliammide rinforzata. Le guarnizioni in EPDM sono state studiate con durezza differenti secondo la funzione che dovranno svolgere all'interno del serramento.

They are original and Sapa marked. Their features are: core in aluminium alloy, pins and screw in stainless steel, bushings and sliding elements are in reinforced polyamide. The packing in EPDM has been conceived in different hardness according to its functions in the fastening.

Per garantire il massimo delle prestazioni in funzionalità e durata, il sistema R72TT CE è stato sottoposto ai collaudi rescritti dalle vigenti Normative europee ottenendo ottimi risultati

To guarantee the maximum functionality and wear, R72TT CE system has been tested according to the running european norms.

CERTIFICATI		CERTIFICATES					
Sistema <i>System</i>	Tipologia <i>Windows and doors</i>	Dimensioni <i>Dimensions</i> L x H mm	Risultati prove <i>Test values</i>			Sezioni <i>Cross section</i>	Laboratorio Certificato N° Laboratory Certificate Nr.
			Aria <i>Air</i>	Acqua <i>Water</i>	Vento <i>Wind</i>		
R 72 ^{TT CE} SYSTEM		1544 x1644	4	E900	C4		ISTEDIL 0307/2010-E
R 72 ^{TT CE} SYSTEM		1544 x1644	4	E1050	C3		ISTEDIL 2098/2010-C
R 72 ^{TT CE} SYSTEM		1844 x2244	4	9A	C3		ISTEDIL 2098/2010-A
R 72 ^{TT CE} SYSTEM		1644 x2244	4	E750	C3		ISTEDIL 1508/2011-A

- Collaudi eseguiti, in conformità alla Norma UNI EN 1026 - UNI EN 1027 - UNI EN 12211

- Tests Execute as UNI EN 1026 - UNI EN 1027 - UNI EN 12211 standards

- Collaudi classificati secondo Normative UNI EN 12207 - UNI EN 12208 - UNI EN 12210

- Tests Classify as UNI EN 12207 - UNI EN 12208 - UNI EN 12210 standards

Tecnicamente, viene definito "a taglio termico" un profilato metallico che, una volta impiegato nella costruzione di un infisso, presenti il lato rivolto all'interno nettamente diviso dal lato esposto all'esterno per impedire lo scambio termico. Le due parti della sezione devono essere perciò separate da un materiale diverso, con bassi valori di conducibilità termica.

Il taglio termico del sistema R, realizzato con barrette in poliammide rinforzato, si colloca su bassi valori di trasmittanza termica, in linea con i sistemi a taglio termico più avanzati.

Per evitare slittamenti dei vari componenti del profilato a taglio termico è prescritta la pre-zigrinatura dei particolari di bloccaggio prima dell'operazione meccanica di accoppiamento.

A metal section which, when used in the construction of a frame, has the side facing inwards clearly divided from that facing outwards to prevent heat exchange is technically defined "with thermal break". The two parts of the section must therefore be separated by a different material, with low conductivity values.

The thermal break of the R system, produced with reinforced polyamide bars, is placed on low k values (heat transmission coefficient), in line with the most advanced systems with thermal break.

To prevent the components of the thermal break section from slipping, it is advisable to pre-knurl the blocking parts before carrying out the mechanical coupling operation.

Tutti i profilati a taglio termico venduti da Sapa sono sempre riconoscibili.

Il marchio, impresso a laser è stato previsto per essere sempre visibile nel profilato assemblato come dalla figura sottostante

All thermal break sections are always recognizable.

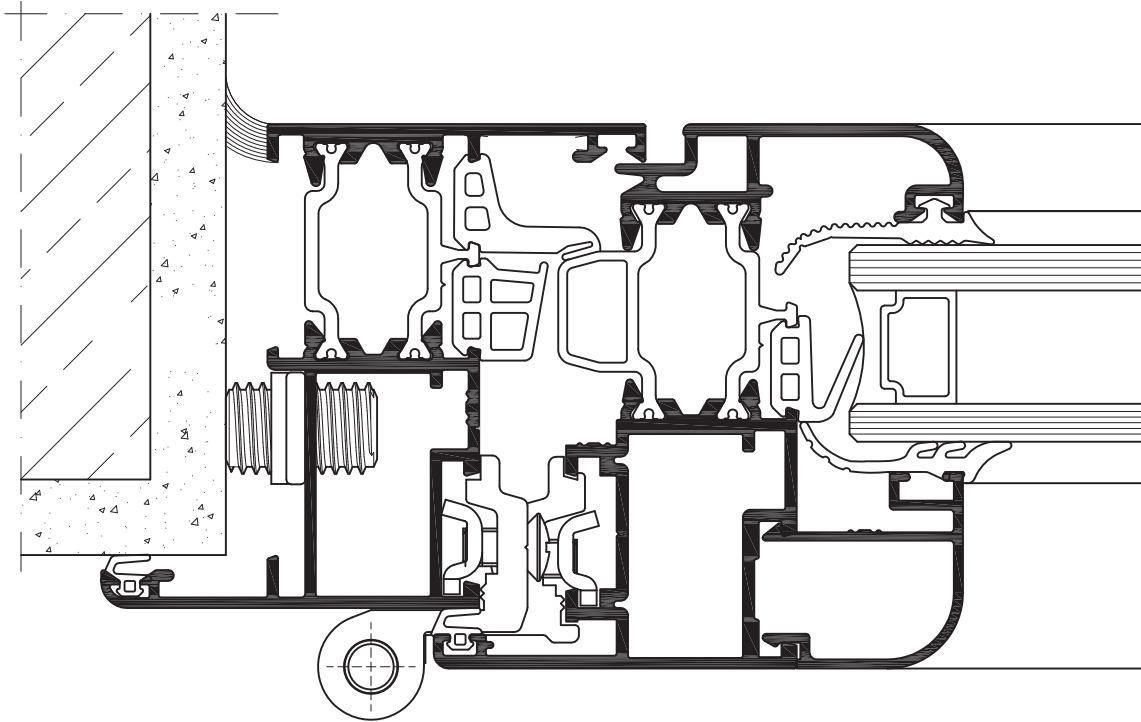
The laser impressed brand is always visible on the assembled sections as you can see in the picture here under



Sapa non risponde di eventuali difetti imputabili ad accoppiamenti non eseguiti nei propri stabilimenti e/o dovuti all'utilizzo di macchine non idonee e/o mal regolate.

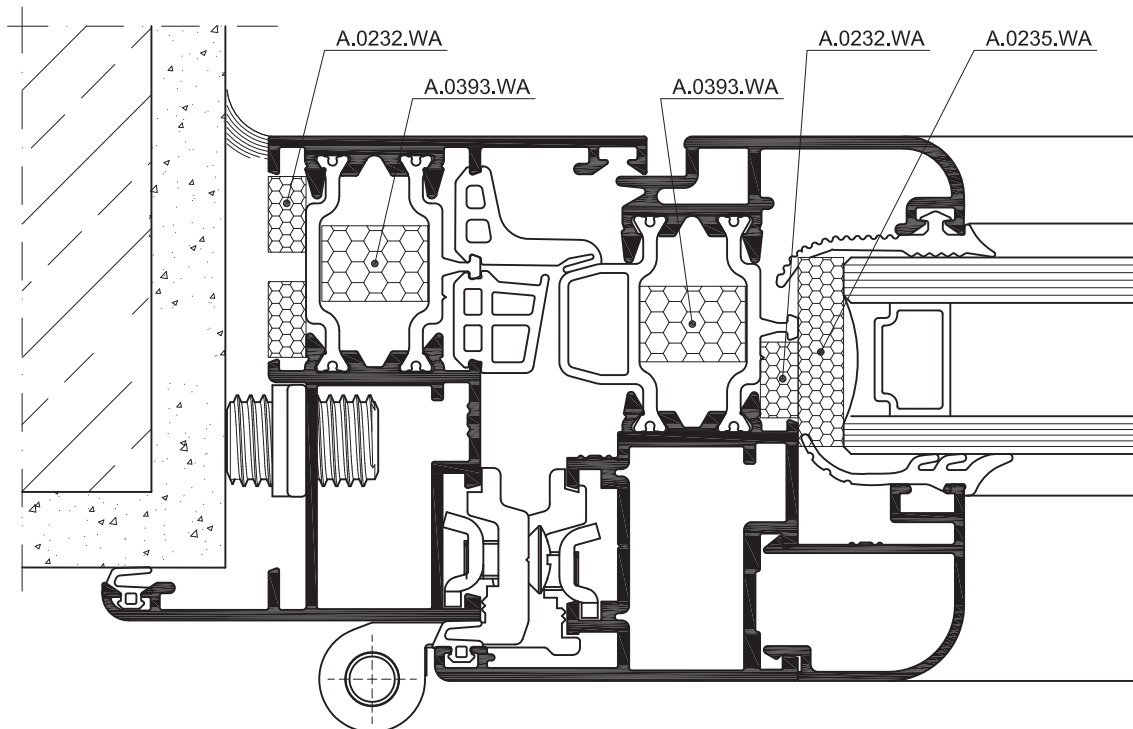
Sapa will not be responsible for any incidental defects due to couplings which have not been carried out in its own premises and/or due to the use of not proper and/or not well-regulated machines.

CONFIGURAZIONE STANDARD
STANDARD CONFIGURATION



CONFIGURAZIONE hp
CONFIGURATION hp

Inserire all'interno delle barrette, sotto il vetro ed a contatto con la muratura, il materiale isolante come indicato nello schema sottostante.
Insert the isolating material in the poliammide bars, under the glass and in contact with the wall, as indicated in the scheme.



"Valido solo per il territorio ITALIANO"

"Applicable only for Italy"

Requisiti della prestazione energetica degli edifici

Decreto legislativo 29 dicembre 2006, n. 311

Disposizioni correttive ed integrative al decreto legislativo 19 agosto 2005, n. 192, recante attuazione alla direttiva 2002/91/CE, relativa al rendimento energetico nell'edilizia.

Stabilisce i valori massimi della trasmittanza termica dei vetri e delle chiusure trasparenti comprensive di vetri e profilati metallici.

Tabella 4a Valori limite della trasmittanza termica U delle chiusure trasparenti comprensive degli infissi espressa in W/m ² K			
Zona climatica	Dall' 1 gennaio 2006 U (W/m ² K)	Dall' 1 gennaio 2008 U (W/m ² K)	Dall' 1 gennaio 2010 U (W/m ² K)
A	5,5	5,0	4,6
B	4,0	3,6	3,0
C	3,3	3,0	2,6
D	3,1	2,8	2,4
E	2,8	2,4	2,2
F	2,4	2,2	2,0

Tabella 4b Valori limite della trasmittanza U dei vetri espressa in W/m ² K			
Zona climatica	Dall' 1 gennaio 2006 U (W/m ² K)	Dall' 1 luglio 2008 U (W/m ² K)	Dall' 1 gennaio 2011 U (W/m ² K)
A	5,0	4,5	3,7
B	4,0	3,4	2,7
C	3,0	2,3	2,1
D	2,6	2,1	1,9
E	2,4	1,9	1,7
F	2,3	1,7	1,3

Il territorio nazionale è suddiviso nelle seguenti zone climatiche in funzione dei gradi-giorno, indipendentemente dalla ubicazione geografica:

Zona A - Comuni che presentano un numero di gradi-giorno non superiore a 600;

Zona B - Comuni che presentano un numero di gradi-giorno maggiore di 600 e non superiore a 900;

Zona C - Comuni che presentano un numero di gradi-giorno maggiore di 900 e non superiore a 1400;

Zona D - Comuni che presentano un numero di gradi-giorno maggiore di 1400 e non superiore a 2100;

Zona E - Comuni che presentano un numero di gradi-giorno maggiore di 2100 e non superiore a 3000;

Zona F - Comuni che presentano un numero di gradi-giorno maggiore di 3000.

PRESTAZIONI TERMICHE
THERMAL PERFORMANCES

R 72^{TT CE}
SYSTEM

I valori di trasmittanza termica U_f sotto riportati sono i risultati di calcolo eseguiti secondo la normativa UNI EN ISO 10077-2

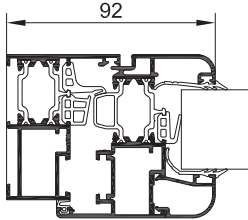
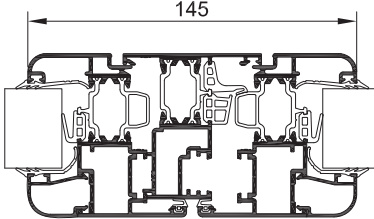
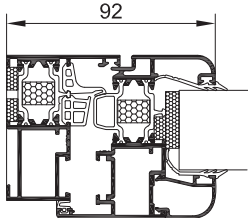
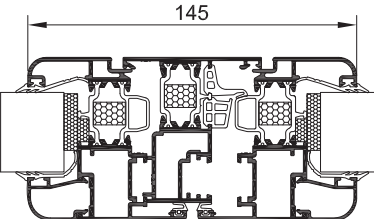
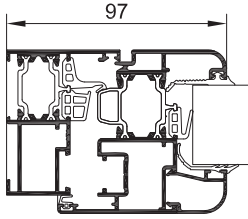
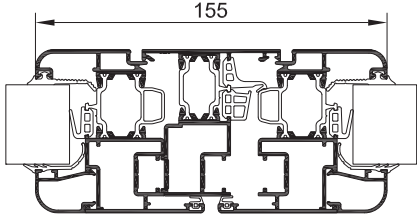
The thermal performance values U_f hereunder reported are calculation results in accordance with the norm UNI EN ISO 10077-2

Nella porzione di tubolarità delimitata dalle barrette del taglio termico si assume:

- Il valore pari a 0,90 per l'emissività dell'alluminio verniciato
- Il valore pari a 0,30 per l'emissività dell'alluminio non verniciato

The equivalent thermal conductivity of the cavity between aluminium and polyamid bars is:

- 0,90 If the aluminium is painted
- 0,30 If the aluminium is mill finish

CERTIFICATI		CERTIFICATES			
Sistema System	Sezioni Cross section	Profilati Section	Risultati calcolo Calculus values		Laboratorio Certificato N°. Laboratory Certificate Nr°.
			$U_f = W/m^2 \cdot K$ $\epsilon = 0.9$	$U_f = W/m^2 \cdot K$ $\epsilon = 0.3$	
R 72^{TT CE} SYSTEM		R72C844 R72C842	2,55	2,35	
R 72^{TT CE} SYSTEM		R72C842 R72C843 R72C842	2,56	2,36	
R 72^{TT CE hp} SYSTEM		R72C844 R72C842	2,05	2,01	
R 72^{TT CE hp} SYSTEM		R72C842 R72C843 R72C842	2,12	2,09	
R 72^{TT CE} SYSTEM		R72C844 R72C928	2,58	2,35	
R 72^{TT CE} SYSTEM		R72C928 R72C729 R72C928	2,59	2,36	

Una corretta posa in opera, evita spesso il decadimento delle prestazioni ottenute in laboratorio, curare in maniera appropriata la posa valorizza tutto il processo produttivo dalla progettazione all'installazione.

Fare una pulizia periodica con prodotti neutri riduce notevolmente i rischi di corrosione ed allunga sicuramente la vita dell'infisso. Per una corretta installazione, manutenzione e pulizia dei serramenti, Vi raccomandiamo di consultare le prescrizioni riportate sulle seguenti note tecniche UNCSAAL:

UX42 - "Guida alla posa in opera dei serramenti"

UX10 - "La pulizia delle superfici di serramenti e facciate continue"

A correct installation, often avoids the decay of the performances obtained in the laboratory. Taking appropriate care of the installation increases the value of the whole production process from the planning to the installation.

Cleaning periodically with neutral products reduces remarkably the corrosion risk and extends surely the life of the frame.

For a correct installation, maintenance and cleaning of the sections, we recommend you refer to the prescriptions quoted in the following technical notes of UNCSAAL UX42 and UX10



LEGHE IN ALLUMINIO DA BONIFICA - PROFILATI ESTRUSI
HEAT-TREATABLE ALUMINIUM ALLOYS - EXTRUSION SECTIONS

Leghe / Alloys		6060 UNI EN 573-3				
Composizione chimica normale / Normal chemical compos		Mg 0,4 Si 0,4 Fe 0,2				
Stato / State		0	T1	T5	T6	
Caratteristiche meccaniche <i>Mechanical Characteristics</i>	Carico di rottura a trazione <i>Ultimate tensile stress</i>	R _m N/mm ²	140 Max	120	185	205
	Carico al limite di snervamento <i>Yield point</i>	R _p N/mm ²	80 Max	50	145	165
Caratteristiche fisiche <i>Physical Characteristics</i>	Allungamento <i>Elongation</i>	A %	20	16	11	10
	Peso specifico <i>Specific weight</i>	Kg/dm ³	2,70			
	Conduttività termica a 20°C <i>Heat conductivity at 20°C</i>	W/ (cm °K)	≈ 2,09		≈ 1,75	
	Resistività elettrica a 20°C <i>Electrical resistivity at 20°C</i>	μΩ ·cm	≈ 3,14		≈ 3,25	
Coef. di dilatazione termica lineare da 20° a 200°C <i>Linear thermal expansion coefficient from 20° to 200° C</i>		24 · 10 ⁻⁶ K ⁻¹				

Gli accessori originali Sapa, specifici del sistema, sono gli unici che garantiscono nel tempo la qualità del prodotto finale

The original Sapa accessories, specifically designed for the system, are the only ones that guarantee quality of end products through time

AVVERTENZA
NOTE

Per gli articoli indicati con ^(xxx) è possibile scegliere tra diversi produttori, tali articoli sono comunque forniti da Sapa. Le combinazioni possibili sono le seguenti:

For the articles indicating ^(xxx) there is the possibility to choose between different manufacturers although the goods will be supplied by Sapa. Here following the different combinations:

(ABP) - Prodotte da ALUTEC, BMP e PRODUCTA.
(AB) - Prodotte da ALUTEC e BMP.
(AP) - Prodotte da ALUTEC e PRODUCTA.
(BP) - Prodotte da BMP e PRODUCTA.

*(ABP) - Produced by ALUTEC, BMP and PRODUCTA.
(AB) - Produced by ALUTEC and BMP.
(AP) - Produced by ALUTEC and PRODUCTA.
(BP) - Produced by BMP and PRODUCTA.*

Per ordinare tali prodotti, è necessario inserire al termine del codice i seguenti numeri:

To order the articles you will need to indicate following numbers at the end of the code:

01 - Per BMP

01 - For manufacturer BMP

02 - Per ALUTEC

02 - For manufacturer ALUTEC

03 - Per PRODUCTA

03 - For manufacturer PRODUCTA

Esempio: Art. G.0135.EN^(ABP) La scelta può essere fatta tra BMP (ordinando il codice G.0135.EN.01), ALUTEC (codice G.0135.EN.02) e PRODUCTA (codice G.0135.EN.03).

Example: Article G.0135.EN^(ABP) the choice may be between BMP (ordering art. G.0135.EN.01), ALUTEC (ordering art. G.0135.EN.02) and PRODUCTA (ordering art. G.0135.EN.03).

Es.2: Art. G.0135.EN^(AB) La scelta può essere fatta tra BMP (ordinando il codice G.0135.EN.01) ed ALUTEC (codice G.0135.EN.02).

Example n°2: Article G.0135.EN^(AB) the choice may be between BMP (ordering art. G.0135.EN.01) and Alutec (ordering art. G.0135.EN.02)

ACCESSORI UNIVERSALI
UNIVERSAL ACCESSORIES



ACCESSORI UNIVERSALI
UNIVERSAL ACCESSORIES







Articolo Item	Immagine Picture	Descrizione Description	Articolo Item	Immagine Picture	Descrizione Description												
299.703.XX		Cerniera pesante per porta - 3 ali interasse 70 mm <i>3 wings heavy hinge for door distance between centers mm 70</i>	299.603.XX		Cerniera pesante per porta - 3 ali interasse 60 mm. <i>Heavy hinge for door door - 3 wings distance between centers mm 60</i>												
		<table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0			<table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0
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R50TT	R62TT	R72TT															
R72TTCE	R72TT1.3	R85TT1.0															
299.702.XX		Cerniera pesante per porta - 2 ali interasse 70 mm <i>2 wings heavy hinge for door distance between centers mm 70</i>	299.862.XX		Cerniera pesante per porta - 2 ali interasse 86 mm. <i>Heavy hinge for door door - 2 wings distance between centers mm 86</i>												
		<table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0			<table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0
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R72TTCE	R72TT1.3	R85TT1.0															
R50TT	R62TT	R72TT															
R72TTCE	R72TT1.3	R85TT1.0															
299.007.XX		Spessore da 7 mm per cerniere pesanti <i>7 mm shims for heavy hinges</i>	299.863.XX		Cerniera pesante per porta - 3 ali interasse 86 mm. Asse di rotazione a 20 mm. <i>Heavy hinge for door door - 3 wings distance between centers mm 86</i>												
		<table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0			<table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0
R50TT	R62TT	R72TT															
R72TTCE	R72TT1.3	R85TT1.0															
R50TT	R62TT	R72TT															
R72TTCE	R72TT1.3	R85TT1.0															
299.962.XX		Cerniera pesante per porta - 2 ali interasse 96 mm <i>2 wings heavy hinge for door distance between centers mm 96</i>															
		<table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0									
R50TT	R62TT	R72TT															
R72TTCE	R72TT1.3	R85TT1.0															
299.963.XX		Cerniera pesante per porta - 3 ali interasse 96 mm <i>3 wings heavy hinge for door distance between centers mm 96</i>															
		<table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0									
R50TT	R62TT	R72TT															
R72TTCE	R72TT1.3	R85TT1.0															
299.008.XX		Spessore da 8 mm per cerniere pesanti. <i>8 mm shims for heavy hinges.</i>															
		<table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0									
R50TT	R62TT	R72TT															
R72TTCE	R72TT1.3	R85TT1.0															
299.602.XX		Cerniera pesante per porta - 2 ali interasse 60 mm. <i>Heavy hinge for door door - 2 wings distance between centers 60 mm</i>															
		<table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0									
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R72TTCE	R72TT1.3	R85TT1.0															

ACCESSORI UNIVERSALI
UNIVERSAL ACCESSORIES



ACCESSORI UNIVERSALI
UNIVERSAL ACCESSORIES



Articolo <i>Item</i>	Immagine <i>Picture</i>	Descrizione <i>Description</i>	Articolo <i>Item</i>	Immagine <i>Picture</i>	Descrizione <i>Description</i>						
280.002.XX		<p>Cricchetto universale UNIV. carter, gancio e riscontro in alluminio, particolari di scorrimento in nylon caricato <i>Universal spring latch aluminium carter, hook and striker, nylon sliding parts</i></p> <table border="1" data-bbox="501 539 799 584"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0			
R50TT	R62TT	R72TT									
R72TTCE	R72TT1.3	R85TT1.0									
299.086.00		<p>Albero con losanga per profili da 104 mm □ 8mm <i>Lozenge rod for profiles from mm 104 mm □ 8mm</i></p> <table border="1" data-bbox="501 792 799 837"> <tr> <td></td> <td></td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>			R72TT	R72TTCE	R72TT1.3	R85TT1.0			
		R72TT									
R72TTCE	R72TT1.3	R85TT1.0									
503.463.XX		<p>Maniglia a tavellino VELA reversibile, per apertura esterna con battuta 8 mm, manico smontabile e meccanismo a scatto a 90° <i>VELA flat catch, reversible, for external opening with mm 8 rabbet and removable handle and snap mechanism at 90°</i></p> <table border="1" data-bbox="501 1046 799 1090"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0			
R50TT	R62TT	R72TT									
R72TTCE	R72TT1.3	R85TT1.0									
503.464.XX		<p>Maniglia a tavellino VELA reversibile, per apertura esterna con battuta 8 mm, manico smontabile e meccanismo a scatto a 90°. Manico in zama <i>VELA flat catch, reversible, for external opening with mm 8 rabbet and removable handle and snap mechanism at 90°. Zamak handle</i></p> <table border="1" data-bbox="501 1299 799 1344"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0			
R50TT	R62TT	R72TT									
R72TTCE	R72TT1.3	R85TT1.0									

Per codifiche, finiture ed ulteriori accessori non riportati, consultare i cataloghi dei fornitori.

For more information about codes, finished and accessories not listed, see suppliers catalogues.

CERNIERE E CARDINI
HINGES AND PIVOTS



CERNIERE E CARDINI
HINGES AND PIVOTS



Articolo Item	Immagine Picture	Descrizione Description	Articolo Item	Immagine Picture	Descrizione Description
280.013.XX		Cerniera sfilabile per 3a anta <i>Slip-off 3rd leaf hinge</i>	1121.1		Cerniera sfilabile a 2 ali <i>Two-leaf slip-off hinge</i>
		R72TT CE			R72TT CE
280.104.XX		Cerniera sfilabile a 2 ali <i>Two-leaf slip-off hinge</i>	1123		Cerniera sfilabile per 3a anta <i>Slip-off 3rd leaf hinge</i>
		R72TT CE			R72TT CE
299.602.XX		Cerniera a 2 ali registrabile portata 120 Kg profilati coplanari interasse 60mm <i>Two-leaf adjustable hinge max capacity 120 Kg for coplanar section centre distance 60mm</i>	1145/60		Cerniera a 2 ali registrabile portata 160Kg profilati coplanari <i>Two-leaf adjustable hinge max capacity 160Kg for coplanar section</i>
		R72TT CE			R72TT CE
299.603.XX		Cerniera a 3 ali registrabile portata 160 Kg profilati coplanari interasse 60mm <i>Three-leaf adjustable hinge max capacity 160 Kg for coplanar section centre distance 60mm</i>	1145.704		Kit fissaggio cerniere 2 ali per profilati coplanari <i>Two-leaf hinge fixing kit for coplanar section</i>
		R72TT CE			R72TT CE
299.603.XX		Cerniera a 3 ali registrabile portata 160 Kg profilati coplanari interasse 60mm <i>Three-leaf adjustable hinge max capacity 160 Kg for coplanar section centre distance 60mm</i>	1145.3/60		Cerniera a 3 ali registrabile portata 160Kg profilati coplanari <i>Three-leaf adjustable hinge max capacity 160Kg for coplanar section</i>
		R72TT CE			R72TT CE
299.603.XX		Cerniera a 3 ali registrabile portata 160 Kg profilati coplanari interasse 60mm <i>Three-leaf adjustable hinge max capacity 160 Kg for coplanar section centre distance 60mm</i>	1145.714		Kit fissaggio cerniere 3 ali per profilati coplanari <i>Three-leaf hinge fixing kit for coplanar section</i>
		R72TT CE			R72TT CE
299.007.XX		Spessore in alluminio da 7mm per cerniere pesanti <i>7 mm hinges shim for heavy hinge made of extruded aluminium</i>	1145.702/7		Spessore in alluminio da 7mm per cerniere pesanti <i>7 mm hinges shim for heavy hinge made of extruded aluminium</i>
		R72TT CE			R72TT CE


SQUADRETTE D'ANGOLO
CORNER JOINTS


SQUADRETTE D'ANGOLO
CORNER JOINTS


Articolo Item	Immagine Picture	Descrizione Description
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Articolo Item	Immagine Picture	Descrizione Description
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502.123.55		Squadretta d'allineamento in nylon su aletta. <i>Nylon alignment corner joint on fin.</i>				
		<table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE
R50TT	R62TT	R72TT				
R72TTCE	R72TT1.3	R85TT1.0				

2021 (Monticelli)		Squadretta d'allineamento su alette interne ante "FUJI" Alignment corner joint "FUJI" on rabbet for wing profiles				
		<table border="1"> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td></td> </tr> </table>				R72TTCE
R72TTCE	R72TT1.3					

502.143.55		Squadretta d'allineamento in nylon per profili complanari ed arrotondati. <i>Nylon alignment corner joint for coplanar and rounded profiles.</i>				
		<table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE
R50TT	R62TT	R72TT				
R72TTCE	R72TT1.3	R85TT1.0				

RA 590 (Compas)		Squadretta d'allineamento profilati mostra <i>Alignment corner joint profiles cornice</i>				
		<table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE
R50TT	R62TT	R72TT				
R72TTCE	R72TT1.3	R85TT1.0				


502.624.01		Squadretta d'allineamento a cianfrinare in alluminio per tubolarità 27x6.8 <i>Aluminium alignment corner joint for caulking for piping 27x6.8</i>				
		<table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE
R50TT	R62TT	R72TT				
R72TTCE	R72TT1.3	R85TT1.0				


0359 (Monticelli)		Squadretta d'angolo per profilati con tubolare 38 x 26mm <i>Corner joint for profile piping 38 x 26mm</i>				
		<table border="1"> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>				R72TTCE
R72TTCE						


502.662.01		Squadretta a cianfrinare per profili con tubolare 6,7x7,5 <i>Crimped corner joint for hollow internal section: 6.7x7.5</i>				
		<table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE
R50TT	R62TT	R72TT				
R72TTCE	R72TT1.3	R85TT1.0				

0409 (Monticelli)		Squadretta d'angolo per profilati con tubolare 15 x 29,6mm <i>Corner joint for profile piping 15 x 29.6mm</i>				
		<table border="1"> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td></td> </tr> </table>				R72TTCE
R72TTCE	R72TT1.3					


2020 (Monticelli)		Squadretta d'allineamento aletta esterna "FUJI" <i>Alignment corner joint for external rabbet "FUJI"</i>				
		<table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE
R50TT	R62TT	R72TT				
R72TTCE	R72TT1.3	R85TT1.0				

0410 (Monticelli)		Squadretta d'angolo per profilato R72C835 <i>Corner joint for profile R72C835</i>				
		<table border="1"> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>				R72TTCE
R72TTCE						

2006 (Monticelli)		Squadretta d'allineamento profilati complanari "FUJI" <i>Alignment corner joint profiles coplanarities "FUJI"</i>				
		<table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE
R50TT	R62TT	R72TT				
R72TTCE	R72TT1.3	R85TT1.0				

0496 (Monticelli)		Squadretta d'angolo per profilato R72C948 tubolarità 35,9x29,1 <i>Corner joint for profile R72C948 piping mm 35,9x29,1</i>				
		<table border="1"> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td></td> </tr> </table>				R72TTCE
R72TTCE	R72TT1.3					

2013 (Monticelli)		Squadretta d'allineamento aletta interna "FUJI" <i>Alignment corner joint for internal rabbet "FUJI"</i>				
		<table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE
R50TT	R62TT	R72TT				
R72TTCE	R72TT1.3	R85TT1.0				

A.10006.00 (Sapa)		Squadretta a cianfrinare per tubolare esterno 16,5 x 7mm (Tipo R72C874 - R72C875) <i>Crimped corner joint cleat for hollow external section 16,5 x 7mm</i>				
		<table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE
R50TT	R62TT	R72TT				
R72TTCE	R72TT1.3	R85TT1.0				

SQUADRETTE D'ANGOLO
CORNER JOINTS

SQUADRETTE D'ANGOLO
CORNER JOINTS

Articolo Item	Immagine Picture	Descrizione Description						
A.2906.AA (Sapa)		Squadretta a cianfrinare per profilati con tubolare 15,2 x 29,5mm <i>Crimped corner joint cleat for hollow internal section 15,2 x 29,5mm</i>						
		<table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0
R50TT	R62TT	R72TT						
R72TTCE	R72TT1.3	R85TT1.0						

Articolo Item	Immagine Picture	Descrizione Description						
402.411.01		Squadretta in alluminio estruso per tubolarità 10,4x42 <i>Extruded aluminium corner joint piping 10,4x42</i>						
		<table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0
R50TT	R62TT	R72TT						
R72TTCE	R72TT1.3	R85TT1.0						

Articolo Item	Immagine Picture	Descrizione Description			
A.2910.AA (Sapa)		Squadretta esterna a cianfrinare e spinare per tubolarità 12x7,5 <i>External corner joint for piping and couled 12x7,5</i>			
		<table border="1"> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td></td> </tr> </table>	R72TTCE	R72TT1.3	
R72TTCE	R72TT1.3				

Articolo Item	Immagine Picture	Descrizione Description						
502.411.01		Squadretta in alluminio estruso per tubolarità 15 x 25 <i>Extruded aluminium corner joint piping 15 x 25</i>						
		<table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0
R50TT	R62TT	R72TT						
R72TTCE	R72TT1.3	R85TT1.0						

Articolo Item	Immagine Picture	Descrizione Description			
A.3103.ZA (Sapa)		Squadretta allineamento aletta anta soluzione ferramenta perimetrale <i>Alignment corner joint for rabbet wing perimetral fitting solution</i>			
		<table border="1"> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td></td> </tr> </table>	R72TTCE	R72TT1.3	
R72TTCE	R72TT1.3				

Articolo Item	Immagine Picture	Descrizione Description			
092 (Mont.)		Spina in acciaio inox per squadretta A.2910.AA <i>Pinned stainless to corner joint A.2910.AA</i>			
		<table border="1"> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td></td> </tr> </table>	R72TTCE	R72TT1.3	
R72TTCE	R72TT1.3				

GIUNTI
JOINTS

GIUNTI
JOINTS

Articolo Item	Immagine Picture	Descrizione Description			
0575 (Monticelli)		Giunti per profilati <i>Joint for profile piping 15 x 29.6mm</i>			
		<table border="1"> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>	R72TTCE		
R72TTCE					

Articolo Item	Immagine Picture	Descrizione Description						
A.3204.ZA		Cavallotto di giunzione telai-traversi. <i>Tjoint for frames and transoms</i>						
		<table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0
R50TT	R62TT	R72TT						
R72TTCE	R72TT1.3	R85TT1.0						

CREMONESI
CREMONE BOLTS



CREMONESI
CREMONE BOLTS



Articolo Item	Immagine Picture	Descrizione Description			
280.011.XX		Cremonese reversibile "VELA" per apertura interna <i>"VELA" reversible cremone bolt handle for inward opening windows</i>			
		<table border="1"> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>	R72TTCE		
R72TTCE					

Articolo Item	Immagine Picture	Descrizione Description			
870.2		Cremonese reversibile "MANON" per apertura interna <i>"MANON" reversible cremone bolt handle for inward opening windows</i>			
		<table border="1"> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>	R72TTCE		
R72TTCE					

Articolo Item	Immagine Picture	Descrizione Description			
280.079.XX		Cricchetto ad agganciare in alluminio e nylon <i>Aluminium and nylon catch</i>			
		<table border="1"> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>	R72TTCE		
R72TTCE					

Articolo Item	Immagine Picture	Descrizione Description			
1390.1		Cricchetto ad agganciare in alluminio e nylon <i>Aluminium and nylon catch</i>			
		<table border="1"> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>	R72TTCE		
R72TTCE					

COMPASSI
ARMS



COMPASSI
ARMS



Articolo Item	Immagine Picture	Descrizione Description			
280.253.00		Coppia bracci sganciabili per vasistas frizionati portata max 70 Kg L = 230mm			
280.254.00		L = 150mm Pair releasable frictioned of stay arms for hopper window capacity max 70 Kg			
		<table border="1"> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>	R72TTCE		
R72TTCE					

Articolo Item	Immagine Picture	Descrizione Description			
1344		Braccio d'arresto sganciabile portata max due bracci 70 Kg Releasable arm stay carrying capacity 2 arms 70 KG			
		<table border="1"> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>	R72TTCE		
R72TTCE					

Articolo Item	Immagine Picture	Descrizione Description			
GS HD Tipo "P" (Giesse)		Coppia bracci per sporgere Pair of stay arms for projecting window NB: Per portata, dimensionamento e schema di montaggio, consultare il catalogo del costruttore NB: For capacity, dimension and mounting scheme, to refer the constructor catalogue			
		<table border="1"> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>	R72TTCE		
R72TTCE					

CHIUSURE
LOCKINGS



CHIUSURE
LOCKINGS



Articolo Item	Immagine Picture	Descrizione Description			
280.096.05		Paletto a manovra diretta in nylon/inox Direct-acting bolt operator kit in nylon/stainless steel			
		<table border="1"> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>	R72TTCE		
R72TTCE					

Articolo Item	Immagine Picture	Descrizione Description			
1541.6		Paletto a manovra diretta in nylon/inox Direct-acting bolt operator kit in nylon/stainless steel			
		<table border="1"> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>	R72TTCE		
R72TTCE					

Articolo Item	Immagine Picture	Descrizione Description			
280.302.02		Nasello di chiusura locking piece			
		<table border="1"> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>	R72TTCE		
R72TTCE					

Articolo Item	Immagine Picture	Descrizione Description			
3100.821		Nasello di chiusura locking piece			
		<table border="1"> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>	R72TTCE		
R72TTCE					

Articolo Item	Immagine Picture	Descrizione Description			
280.151.55		Kit anta apribile Kit for side hung			
		<table border="1"> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>	R72TTCE		
R72TTCE					

Articolo Item	Immagine Picture	Descrizione Description			
280.155.05		Kit paletti per anta semifissa Kit bolt heads for semifixed leaf			
		<table border="1"> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>	R72TTCE		
R72TTCE					

ACCESSORI ACCESSORIES

R 72^{TT} CE
SYSTEM

INNESTI, PUNTALI E RISCONTRI COUPLINGS, TERMINALS, STRIKERS



INNESTI, PUNTALI E RISCONTRI COUPLINGS, TERMINALS, STRIKERS



Articolo Item	Immagine Picture	Descrizione Description
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280.305.02		Incontro di chiusura Keeper			
		<table border="1"> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>	R72TTCE		
R72TTCE					

Articolo Item	Immagine Picture	Descrizione Description
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1243.721		Incontro di chiusura Keeper			
		<table border="1"> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>	R72TTCE		
R72TTCE					

280.027.05		Incontro per terminali Striker for terminals			
		<table border="1"> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>	R72TTCE		
R72TTCE					

1404		Incontro per terminali Striker for terminals			
		<table border="1"> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>	R72TTCE		
R72TTCE					

280.029.55		Coppia innesti cremonese in nylon Nylon pair of couplings			
		<table border="1"> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>	R72TTCE		
R72TTCE					

1484.4		Coppia innesti cremonese in nylon Nylon pair of couplings			
		<table border="1"> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>	R72TTCE		
R72TTCE					

280.095.05		Terminale asta in zama zincata nera Black galvanized zamak terminal rod closing piece			
		<table border="1"> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>	R72TTCE		
R72TTCE					

1485		Terminale asta con puntale in acciaio zincato terminal rod closing piece with galvanized steel bushing			
		<table border="1"> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>	R72TTCE		
R72TTCE					

280.101.05		Incontro singolo con regolazione per terminali in zama nera black zamak single strike for terminals			
		<table border="1"> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>	R72TTCE		
R72TTCE					

1415		Incontro doppio per terminali Double strike for terminals			
		<table border="1"> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>	R72TTCE		
R72TTCE					

ATTACCHI ALLA MURATURA WALL FASTENERS

ATTACCHI ALLA MURATURA WALL FASTENERS

Articolo Item	Immagine Picture	Descrizione Description
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2415 (Master)		Basetta per regolo mobile Plate for adjustable block			
		<table border="1"> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>	R72TTCE		
R72TTCE					

Articolo Item	Immagine Picture	Descrizione Description
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2421		Regolo mobile Adjustable block L = 15mm			
2422		L = 20mm			
2423		L = 30mm			
2424		L = 45mm			
2425 (Master)		L = 60mm			
		<table border="1"> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>	R72TTCE		
R72TTCE					

510.481.55		Distanziale per fissaggio Fastener						
		<table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td></td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	
R50TT	R62TT	R72TT						
R72TTCE	R72TT1.3							

ANTA RIBALTA
TILT AND TURN



ANTA RIBALTA
TILT AND TURN



Articolo Item	Immagine Picture	Descrizione Description
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280.303.XX		Gruppo anta ribalta BORA completo di cerniere e cremonese <i>BORA tilt and turn complete kit with hinge and cremone bolt</i>
		R72TTCE

280.306.01		Braccio supplementare per anta ribalta BORA <i>Additional arm for BORA tilt and turn</i>
		R72TTCE

280.315.02		Rinvio d'angolo supplementare per anta ribalta BORA <i>Additional corner transmission for BORA tilt and turn</i>
		R72TTCE

280.380.XX		Kit cerniere per anta affiancata <i>Hinge set for inactive leaf paired</i>
		R72TTCE

280.388.05		Paletto per anta affiancata <i>Operator for inactive leaf paired</i>
		R72TTCE

Per accessori non indicati, consultare il catalogo del costruttore
For the accessories not indicated, please refer to the constructor catalogue.

VASISTAS SCORREVOLE
SLIDING VASISTAS



Articolo Item	Immagine Picture	Descrizione Description
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2400.1		Kit carrelli sinistri per Vasistas scorrevole SPAZIO <i>Sx Roller kit for sliding Vasistas SPAZIO</i>
		R72TTCE
2400.2		Kit carrelli destri per Vasistas scorrevole SPAZIO <i>Dx Roller kit for sliding Vasistas SPAZIO</i>
		R72TTCE

2410		Kit chiusura per Vasistas scorrevole SPAZIO <i>Lock kit for sliding Vasistas SPAZIO</i>
		R72TTCE

Articolo Item	Immagine Picture	Descrizione Description
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3200.751R		Braccio standard Dx (Larghezza da 510 a 794 mm) <i>Right standard stay arm (Width from mm510 to mm794)</i>
		R72TTCE
3200.752R		Braccio lungo Dx (Larghezza da 795 a 1200 mm) <i>Right long stay arm (Width from mm795 to mm1200)</i>
		R72TTCE

3200.R		Kit fulcro verticale (con cardine e supporto cerniera) <i>Vertical pivot kit (including hinge support)</i>
		R72TTCE

3200.709		Kit di cerniere ambidestre <i>Ambidextrous hinge kit</i>
		R72TTCE

3205.XX		Asta di collegamento <i>Linking bar</i>
		R72TTCE

873.2		Cremonese (int. 92 - 104 mm) <i>Cremone bolt (centre distance 92 - 104mm)</i>
		R72TTCE

Per accessori non indicati, consultare il catalogo del costruttore
For the accessories not indicated, please refer to the constructor catalogue.

VASISTAS SCORREVOLE
SLIDING VASISTAS



Articolo Item	Immagine Picture	Descrizione Description
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2405/900 2405/1100 2405/1330 2405/1650		Guide e coperture per Vasistas scorrevole SPAZIO <i>Guide and cover for sliding Vasistas SPAZIO</i>
		R72TTCE

2410		Kit chiusura per Vasistas scorrevole SPAZIO <i>Lock kit for sliding Vasistas SPAZIO</i>
		R72TTCE

SCARICHI ACQUA
WATER DRAINAGE



TAPPI
PLUGS

Articolo Item	Immagine Picture	Descrizione Description						
509.260.55		Paratempesta in nylon Nylon water drainage cover						
509.260.60		Nero - Black						
		Bianco - White						
		<table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0
R50TT	R62TT	R72TT						
R72TTCE	R72TT1.3	R85TT1.0						
509.261.55		Paratempesta in nylon Nylon water drainage cover						
509.261.60		Nero - Black						
		Bianco - White						
		<table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0
R50TT	R62TT	R72TT						
R72TTCE	R72TT1.3	R85TT1.0						
509.264.55		Paratempesta in nylon Nylon water drainage cover						
509.265.55		Nero - Black						
		Bianco - White						
		<table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0
R50TT	R62TT	R72TT						
R72TTCE	R72TT1.3	R85TT1.0						

Articolo Item	Immagine Picture	Descrizione Description						
A.2128.TN (Sapa)		Tappo per riporto centrale "R72C843" Plug for additional central wing "R72C843"						
		<table border="1"> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>				R72TTCE		
R72TTCE								
A.2137.TN (Sapa)		Coppia tappi battuta centrale su R72C729 Pair of plugs on profile R72C729						
		<table border="1"> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td></td> </tr> </table>				R72TTCE	R72TT1.3	
R72TTCE	R72TT1.3							

CLIPS
CLIPS

SPESSORAMENTO VETRI
SHIM FOR GLASSES

Articolo Item	Immagine Picture	Descrizione Description						
A.9931.TN (Sapa)		Aggancio fermavetri arrotondati Rounded glass beading coupling						
		<table border="1"> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>				R72TTCE		
R72TTCE								

Articolo Item	Immagine Picture	Descrizione Description						
A.2832.AA (Sapa)		Supporto ed appoggio vetro Glass support						
		<table border="1"> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>				R72TTCE		
R72TTCE								

ACCESSORI COMPLEMENTARI
COMPLEMENTARY ACCESSORIES

ATTREZZATURE
TOOLS

Articolo Item	Immagine Picture	Descrizione Description						
A.0202.BA (Sapa)		Angolo Stampato per fermavetro arrotondato Moulded corner for snap-on rounded glass beading						
		<table border="1"> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>R72TTCE</td> <td></td> <td></td> </tr> </table>				R72TTCE		
R72TTCE								











Articolo Item	Immagine Picture	Descrizione Description						
M.2001.00 (Sapa)		Cianfrinatrice manuale Manual crimping tool						
		<table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0
R50TT	R62TT	R72TT						
R72TTCE	R72TT1.3	R85TT1.0						

Articolo Item	Immagine Picture	Descrizione Description						
M.0006.R5		Punzonatrice lavorazione squadrette "ferramenta perimetrale" Punching machine for corner-joints processing "perimetral fitting"						
		<table border="1"> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td></td> </tr> </table>				R72TTCE	R72TT1.3	
R72TTCE	R72TT1.3							








Articolo Item	Immagine Picture	Descrizione Description						
M.0006.R5		Punzonatrice lavorazione squadrette "ferramenta perimetrale" Punching machine for corner-joints processing "perimetral fitting"						
		<table border="1"> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td></td> </tr> </table>				R72TTCE	R72TT1.3	
R72TTCE	R72TT1.3							

Articolo Item	Descrizione Description	Articolo Item	Descrizione Description
462676	<p>KIT 1 ANTA BATTENTE DX COMPOSTO DA:</p> <ul style="list-style-type: none"> • Supporto telaio sup. • Perno • Bandella forbice 12/18-10 • Supporto telaio inf. • Cerniera angolare inf. DX 12/18-9 • Angolare parte anta cerniera AB sup. m. matic • Braccio cerniera AB sup. m. matic • Riscontro nottolino <p>KIT 1 WING RABBET DX COMPOSED FROM:</p> <ul style="list-style-type: none"> • Support frame upper • Hinged • Strip scissor 12/18-10 • Support frame bottom • Angular hinge bottom DX 12/18-9 • Angular side-wing hinge AB upper m. matic • Pivot strip AB upper m. matic • Rivetting striker 	462677	<p>KIT 1 ANTA BATTENTE SX COMPOSTO DA:</p> <ul style="list-style-type: none"> • Supporto telaio sup. • Perno • Bandella forbice 12/18-10 • Supporto telaio inf. • Cerniera angolare inf. SX 12/18-9 • Angolare parte anta cerniera AB sup. m. matic • Braccio cerniera AB sup. m. matic • Riscontro nottolino <p>KIT 1 WING RABBET SX COMPOSED FROM:</p> <ul style="list-style-type: none"> • Support frame upper • Hinged • Strip scissor 12/18-10 • Support frame bottom • Angular hinge bottom SX 12/18-9 • Angular side-wing hinge AB upper m. matic • Pivot strip AB upper m. matic • Rivetting striker
462678	<p>KIT 2 ANTE BATTENTE COMPOSTO DA:</p> <ul style="list-style-type: none"> • Supporto telaio sup. • Perno • Bandella forbice 12/18-10 • Supporto telaio inf. • Cerniera angolare inf. DX 12/18-9 • Cerniera angolare inf. SX 12/18-9 • Angolare parte anta cerniera AB sup. m. matic • Braccio cerniera AB sup. m. matic • Riscontro nottolino • Riscontro catenaccio • Terminale sup. con puntale <p>KIT 2 WINGS RABBET COMPOSED FROM:</p> <ul style="list-style-type: none"> • Support frame upper • Hinged • Strip scissor 12/18-10 • Support frame bottom • Angular hinge bottom DX 12/18-9 • Angular hinge bottom SX 12/18-9 • Angular side-wing hinge AB upper m. matic • Pivot strip AB upper m. matic • Rivetting striker • Bolt striker plates • End bolts with bar end bolt 	462679	<p>KIT 1 ANTA RIBALTA DX COMPOSTO DA:</p> <ul style="list-style-type: none"> • Movimento angolare A • Supporto telaio sup. • Perno • Bandella forbice 12/18-10 • Supporto telaio inf. • Cerniera angolare inf. DX 12/18-9 • Movimento angolare inferiore bifungo • Riscontro alza anta DX • Riscontro nottolino • Riscontro fungo • Adattatore per il taglio dritto multimatic argento <p>KIT 1 WING TILT AND TURN DX COMPOSED FROM:</p> <ul style="list-style-type: none"> • Angle drive A • Support frame upper • Hinged • Strip scissor 12/18-10 • Support frame bottom • Angular hinge bottom DX 12/18-9 • Angle drive burglar bottom • Striker lifting component holder DX • Rivetting striker • Burglar striker • Straight cut adapter to multimatic silver
462680	<p>KIT 1 ANTA RIBALTA SX COMPOSTO DA:</p> <ul style="list-style-type: none"> • Movimento angolare A • Supporto telaio sup. • Perno • Bandella forbice 12/18-10 • Supporto telaio inf. • Cerniera angolare inf. SX 12/18-9 • Movimento angolare inferiore bifungo • Riscontro alza anta SX • Riscontro nottolino • Riscontro fungo • Adattatore per il taglio dritto multimatic argento <p>KIT 1 WING TILT AND TURN SX COMPOSED FROM:</p> <ul style="list-style-type: none"> • Angle drive A • Support frame upper • Hinged • Strip scissor 12/18-10 • Support frame bottom • Angular hinge bottom SX 12/18-9 • Angle drive burglar bottom • Striker lifting component holder SX • Rivetting striker • Burglar striker • Straight cut adapter to multimatic silver 	462681	<p>KIT 2 ANTE RIBALTA COMPOSTO DA:</p> <ul style="list-style-type: none"> • Movimento angolare A • Angolare parte anta verniera AB sup. m.matic • Braccio cerniera AB sup. m.matic • Supporto telaio sup. • Perno • Bandella forbice 12/18-10 • Supporto telaio inf. • Cerniera angolare inf. DX 12/18-9 • Cerniera angolare inf. SX 12/18-9 • Movimento angolare inferiore bifungo • Movimento angolare inf. asta a leva • Riscontro fungo • Riscontro nottolino • Cerniera centrale parte anta • Cerniera centrale parte telaio • Adattatore per il taglio dritto multimatic argento <p>KIT 2 WINGS TILT AND TURN COMPOSED FROM:</p> <ul style="list-style-type: none"> • Angle drive A • Angular side-wing hinge AB upper m.matic • Pivot strip AB upper m.matic • Support frame upper • Hinged • Strip scissor 12/18-10 • Support frame bottom • Angular hinge bottom DX 12/18-9 • Angular hinge bottom SX 12/18-9 • Angle drive burglar bottom • Angle drive bottom Overlapping gear • Burglar striker • Rivetting striker • Centre strip side-wing • Centre strip side-frame • Straight cut adapter to multimatic silver

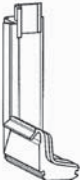
GUARNIZIONI
WEATHERSTRIPS

Articolo Item	Immagine Picture	Descrizione Description						
G.0123.EN ^(BP)		Guarnizione su fermavetro da 4-6 mm <i>mm 4-6 glass support weatherstrip</i> E.P.D.M. <table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0
R50TT	R62TT	R72TT						
R72TTCE	R72TT1.3	R85TT1.0						
G.0124.EN ^(BP)		Guarnizione su fermavetro da 2,5-3,5 mm <i>mm 2,5-3,5 glass support weatherstrip</i> E.P.D.M. <table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0
R50TT	R62TT	R72TT						
R72TTCE	R72TT1.3	R85TT1.0						
G.0127.EN ^(ABP)		Guarnizione su fermavetro spessore 2 mm <i>Weatherstrip on glazing bead shim mm 2</i> E.P.D.M. <table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0
R50TT	R62TT	R72TT						
R72TTCE	R72TT1.3	R85TT1.0						
G.0128.EN ^(ABP)		Guarnizione su fermavetro spessore 3 mm <i>Weatherstrip on glazing bead shim mm 3</i> E.P.D.M. <table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0
R50TT	R62TT	R72TT						
R72TTCE	R72TT1.3	R85TT1.0						
G.0129.EN ^(ABP)		Guarnizione su fermavetro spessore 6 mm <i>Weatherstrip on glazing bead shim mm 6</i> E.P.D.M. <table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0
R50TT	R62TT	R72TT						
R72TTCE	R72TT1.3	R85TT1.0						
G.0134.EN ^(ABP)		Guarnizione appoggio esterno vetri da 3 mm <i>mm 3 glass support weatherstrip</i> E.P.D.M. <table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0
R50TT	R62TT	R72TT						
R72TTCE	R72TT1.3	R85TT1.0						
G.0135.EN ^(ABP)		Guarnizione di precamera. <i>Central weatherstrip.</i> E.P.D.M. <table border="1"> <tr> <td>R50TT</td> <td></td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td></td> </tr> </table>	R50TT		R72TT	R72TTCE	R72TT1.3	
R50TT		R72TT						
R72TTCE	R72TT1.3							
G.0139.RN ^(ABP)		Guarnizione appoggio vetri 1.5 mm <i>Weatherstrip on glass support mm 1,5</i> P.V.C. Coestruso <i>Coextruded P.V.C.</i> <table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0
R50TT	R62TT	R72TT						
R72TTCE	R72TT1.3	R85TT1.0						
G.0140.RN ^(ABP)		Guarnizione appoggio vetri da 3 mm <i>mm 3 glass support weatherstrip</i> P.V.C. Coestruso <i>Coextruded P.V.C.</i> <table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0
R50TT	R62TT	R72TT						
R72TTCE	R72TT1.3	R85TT1.0						
G.0143.EN		Guarnizione aggiuntiva di precamera <i>Additional central weatherstrip</i> E.P.D.M. <table border="1"> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td></td> </tr> </table>				R72TTCE	R72TT1.3	
R72TTCE	R72TT1.3							







GUARNIZIONI
WEATHERSTRIPS

Articolo Item	Immagine Picture	Descrizione Description						
G.0148.EN		Guarnizione sotto vetro <i>Weatherstrips under glass</i> E.P.D.M. <table border="1"> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td></td> </tr> </table>				R72TTCE	R72TT1.3	
R72TTCE	R72TT1.3							
G.0149.EN ^(BP)		Guarnizione su fermavetro spessore 4 mm <i>Weatherstrip on glazing bead shim mm 4</i> E.P.D.M. <table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0
R50TT	R62TT	R72TT						
R72TTCE	R72TT1.3	R85TT1.0						
G.0150.EN ^(BP)		Guarnizione su fermavetro spessore 5 mm <i>Weatherstrip on glazing bead shim mm 5</i> E.P.D.M. <table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0
R50TT	R62TT	R72TT						
R72TTCE	R72TT1.3	R85TT1.0						
G.0152.EN		Guarnizione appoggio esterno vetri da 3 mm <i>mm 3 glass support weatherstrip</i> E.P.D.M. <table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0
R50TT	R62TT	R72TT						
R72TTCE	R72TT1.3	R85TT1.0						
G.0154.EN ^(BP)		Guarnizione di battuta inserimento a scatto <i>Released insertion weatherstrip of rabbet</i> E.P.D.M. <table border="1"> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td></td> </tr> </table>				R72TTCE	R72TT1.3	
R72TTCE	R72TT1.3							
G.0168.EN		Guarnizione isolamento termico telaio-muro <i>Weatherstrip thermal insulation frame-wall</i> <table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0
R50TT	R62TT	R72TT						
R72TTCE	R72TT1.3	R85TT1.0						
G.0314.RN ^(AP)		Guarnizione di tenuta su profilo R72C847 <i>Sealing weatherstrip on profile R72C847</i> P.V.C. Coestruso <i>Coextruded P.V.C.</i> <table border="1"> <tr> <td>R50TT</td> <td>R62TT</td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>	R50TT	R62TT	R72TT	R72TTCE	R72TT1.3	R85TT1.0
R50TT	R62TT	R72TT						
R72TTCE	R72TT1.3	R85TT1.0						

ANGOLI STAMPATI IN EPDM
EPDM MOULDED CORNERS

Articolo Item	Immagine Picture	Descrizione Description						
A.0228.EN		Angolo stampato per guarnizione G.0135.EN <i>Moulded corner for weatherstrip G.0135.EN</i> EN = E.P.D.M. TN = Termoplastica / T.P.R. <table border="1"> <tr> <td></td> <td></td> <td>R72TT</td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td></td> </tr> </table>			R72TT	R72TTCE	R72TT1.3	
		R72TT						
R72TTCE	R72TT1.3							
A.0228.TN ^(AP)								

ISOLANTE TERMICO
THERMIC INSULATION

Articolo <i>Item</i>	Immagine <i>Picture</i>	Descrizione <i>Description</i>						
A.0393.WA (*)		Isolante per profilati con tubolare da 28 mm <i>Insulation for profile piping 28 mm</i>						
		<table border="1"> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>				R72TTCE	R72TT1.3	R85TT1.0
R72TTCE	R72TT1.3	R85TT1.0						
A.0394.WA (*)		Isolante per profilati R72C888/907 <i>Insulation for sections R72C888/907</i>						
		<table border="1"> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>				R72TTCE	R72TT1.3	R85TT1.0
R72TTCE	R72TT1.3	R85TT1.0						
A.0395.WA (*)		Isolante per profilati con tubolare da 52 mm <i>Insulation for profile piping 52 mm</i>						
		<table border="1"> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>				R72TTCE	R72TT1.3	R85TT1.0
R72TTCE	R72TT1.3	R85TT1.0						
A.0396.WA (*)		Isolante per profilati R72C846/847 <i>Insulation for sections R72C846/847</i>						
		<table border="1"> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td>R85TT1.0</td> </tr> </table>				R72TTCE	R72TT1.3	R85TT1.0
R72TTCE	R72TT1.3	R85TT1.0						
A.0232.WA (°)		Isolante adesivo per sottovetro e telaio 10x5 mm <i>Adhesive insulation for frame and underglass 10x5 mm</i>						
		<table border="1"> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td></td> </tr> </table>				R72TTCE	R72TT1.3	
R72TTCE	R72TT1.3							
A.0235.WA (°)		Isolante adesivo per sottovetro 25x6 mm <i>Adhesive insulation for underglass 25x6 mm</i>						
		<table border="1"> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>R72TTCE</td> <td>R72TT1.3</td> <td></td> </tr> </table>				R72TTCE	R72TT1.3	
R72TTCE	R72TT1.3							

(*) = Accessori forniti in barre con lunghezza 1 m
(*) = Accessories are supplied bars with length of 1 m

(°) = Accessori forniti in bobine da 25 m
(°) = Accessories are supplied in coils of 25 m

DIAGRAMMI PER IL DIMENSIONAMENTO STATICO DELLE ANTE STATIC WING-SIZING DIAGRAMS

I grafici di seguito riportati sono stati ottenuti con la seguente formula:
The graphs below were created using the following formula:

$$J(\text{cm}^4) = \frac{q(\text{Kg}/\text{cm}^2) \times H^4 (\text{cm}) \times A(\text{cm})}{1920 \times E(\text{Kg}/\text{cm}^2) \times f(\text{cm})} \times \left[25 \cdot 40 \times \left(\frac{A}{H} \right)^2 + 16 \times \left(\frac{A}{H} \right)^4 \right]$$

Dove:

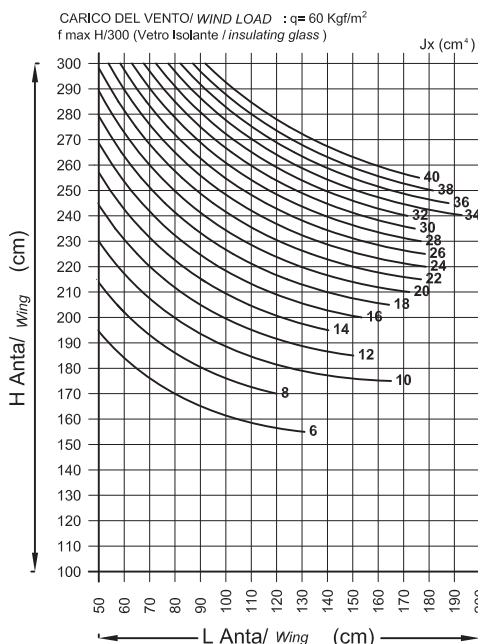
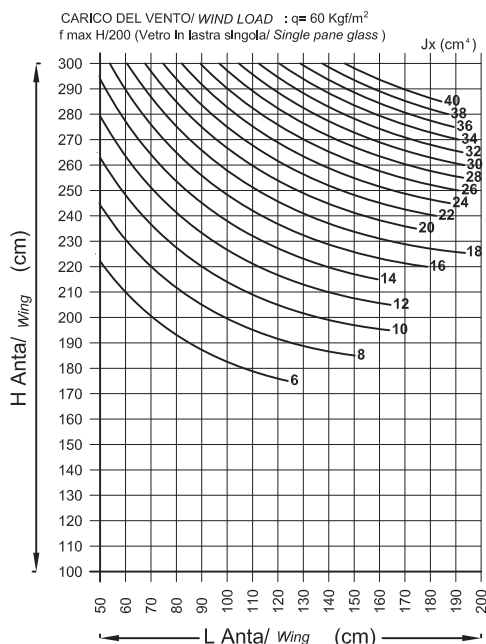
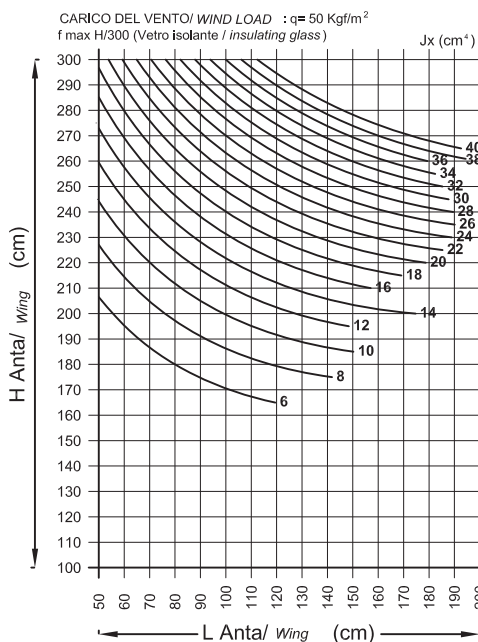
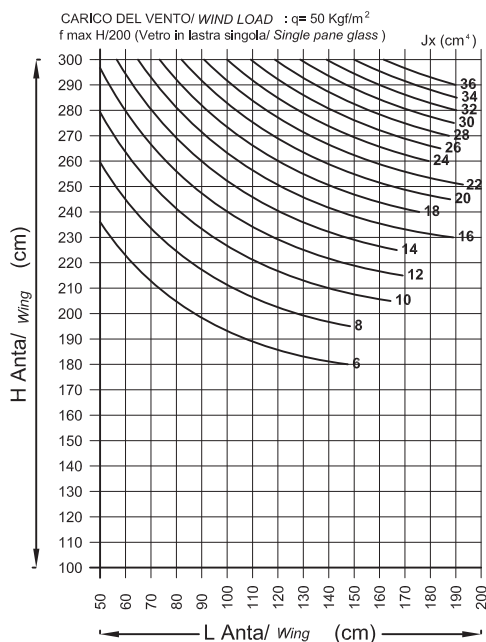
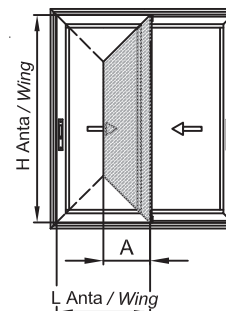
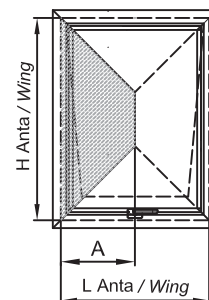
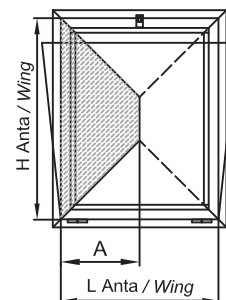
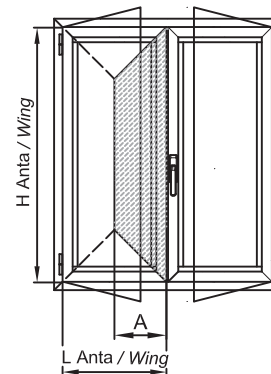
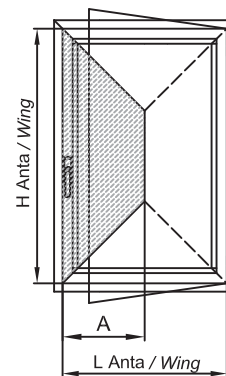
Jx = Momento d'inerzia (cm⁴) A = Larghezza anta : 2 (cm)
q = Carico del vento (Kg/cm²) E = Modulo di elasticità (Kg/cm²)
H = Altezza anta (cm) f = Freccia (cm)

Essa è riferita al dimensionamento delle ante rispetto all'inerzia del profilato, per cui verificare sempre che il peso delle ante sia compatibile con la portata degli accessori impiegati, cerniere ecc. Inoltre verificare, sempre che la freccia dei profilati sia compatibile con il vetro impiegato.

Were:

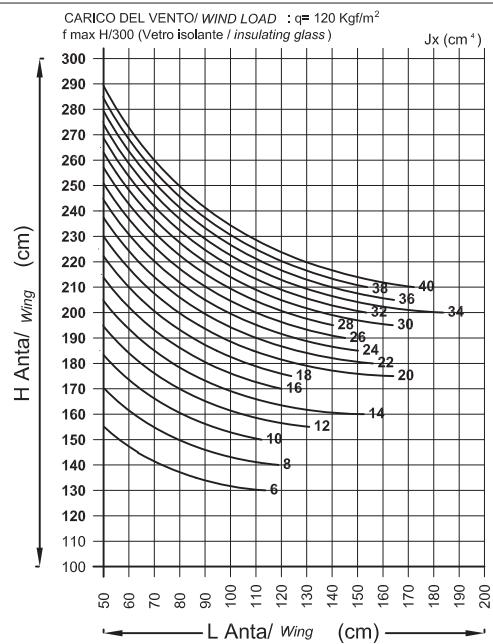
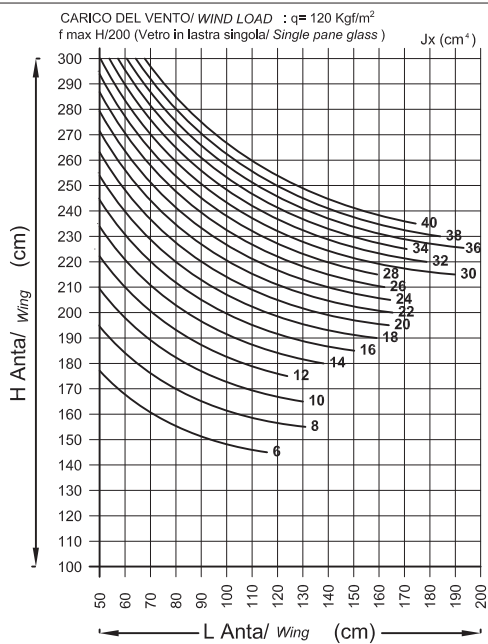
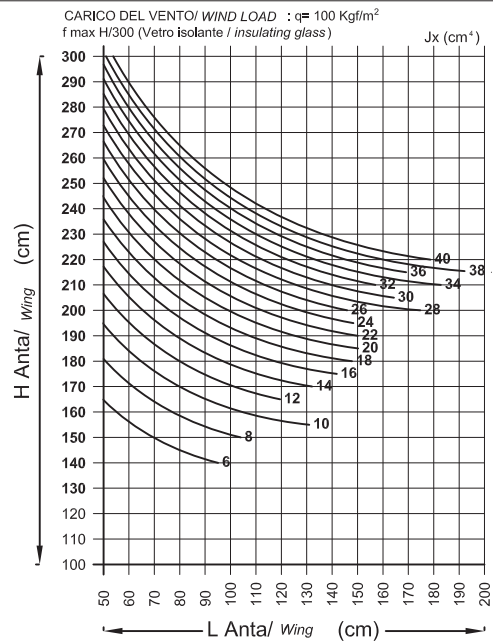
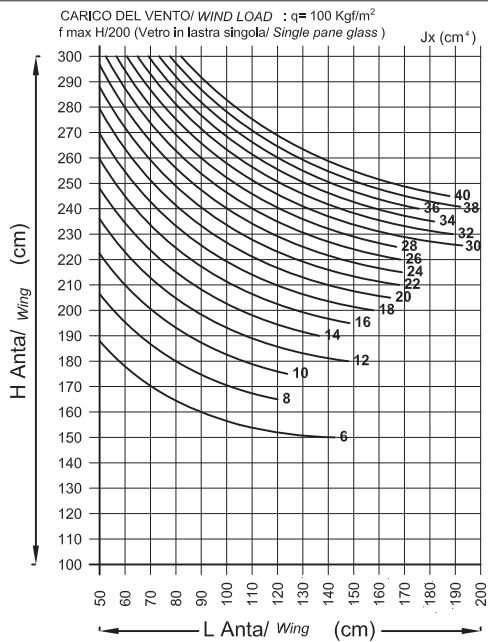
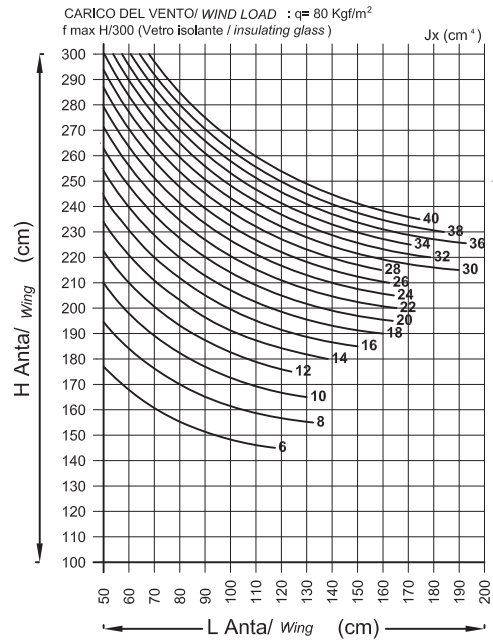
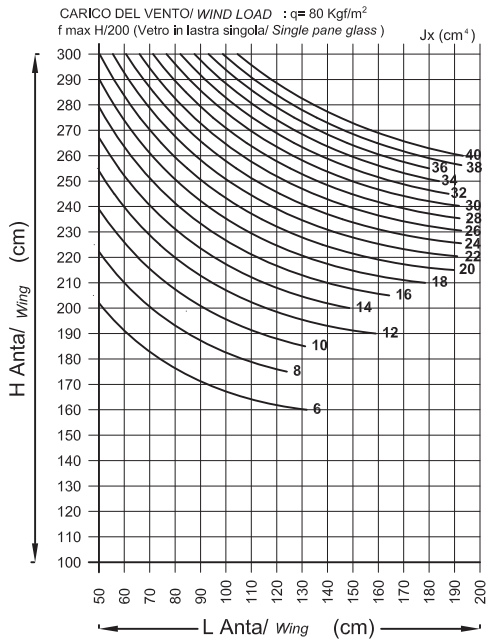
Jx = Moment of inertia (cm⁴) A = Wing/2 width (cm)
q = Wind load (Kg/cm²) E = Coefficient of elasticity (Kg/cm²)
H = Wing height (cm) f = Camber (cm)

This refers to the size of the wings compared with the section inertia so always make sure the weight of the wings is compatible with the load of accessories hinge etc. used. Also always check that the section camber is suitable for the glass used.












DIAGRAMMI PER IL DIMENSIONAMENTO STATICO DELLE ANTE



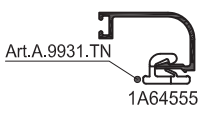

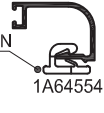


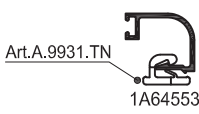


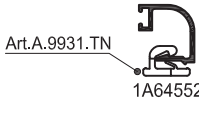


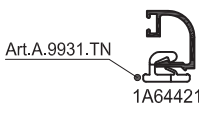


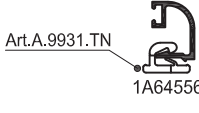


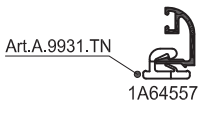

STATIC WING-SIZING DIAGRAMS



INSERIMENTO GUARNIZIONI, VETRI E FERMAVETRI WEATHERSTRIPS. GLASS AND GLASS BEADINGS INSERTION

R 72^{TT CE}
SYSTEM

Articolo <i>Item</i>	Guarnizioni esterne <i>External weatherstrips</i>	Sezione <i>Section</i>	Articolo <i>Item</i>	Guarnizioni interne <i>Internal weatherstrips</i>	Sezione <i>Section</i>
G.0139.RN	A = 1,5 mm		G.0127.EN	D = 2 mm	
G.0134.EN	B = 3 mm		G.0128.EN	E = 3 mm	
G.0152.EN	B = 3 mm		G.0124.EN	E = 2,5/3,5 mm	
G.0140.RN	C = 3 mm		G.0129.EN	F = 5/6 mm	
			G.0123.EN	F = 4/6 mm	



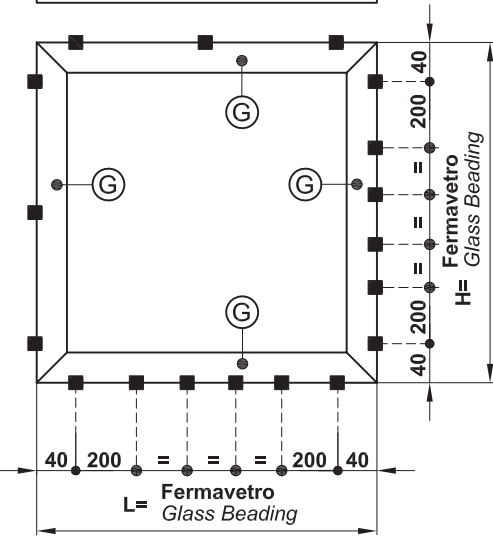
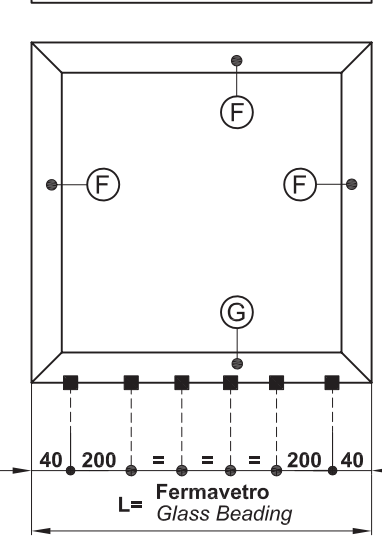











Spessore vetri <i>Glass thickness</i>	Guarnizioni <i>Weatherstrips</i>	Dimensione fermavetri <i>Glass beading size</i>	Vetro ad infilare <i>Glass to insert</i>		
14-15 15-16 15 18 18 19	B-C+F A+F B-C+E B-C+D A+E A+D	36 mm	 1A59850	 1A68137	 Art.A.9931.TN 1A64555
19-20 20-21 20 23 23 24	B-C+F A+F B-C+E B-C+D A+E A+D	31 mm	 1A59849	 Art.A.9931.TN 1A64554	
24-25 25-26 27 28 28 29	B-C+F A+F B-C+E B-C+D A+E A+D	26 mm	 1A58948	 1A64053	 Art.A.9931.TN 1A64553
29-30 30-31 32 33 33 34	B-C+F A+F B-C+E B-C+D A+E A+D	21 mm	 1A58949	 1A64052	 Art.A.9931.TN 1A64552
32-33 33-34 35 36 36 37	B-C+F A+F B-C+E B-C+D A+E A+D	18 mm	 1A62167	 1A64246	 Art.A.9931.TN 1A64421
● 34-35 ● 35-36 ● 37 ● 38 ● 38 ● 39	B-C+F A+F B-C+E B-C+D A+E A+D	16 mm	 1A59848	 1A64247	 Art.A.9931.TN 1A64556
● 39-40 ● 40-41 ● 42 ● 43 ● 43 ● 44	B-C+F A+F B-C+E B-C+D A+E A+D	11 mm	 1A59847	 1A64248	 Art.A.9931.TN 1A64557
● 47-48 ● 48-49 ● 50 ● 51 ● 51 ● 52	B-C+F A+F B-C+E B-C+D A+E A+D	3 mm	 1A70796		




N.B.: Le combinazioni sopra indicate sono state ottenute considerando le quote teoriche. Si consiglia sempre di verificare le tolleranze per applicare vetri, fermavetri e guarnizioni ottimali.

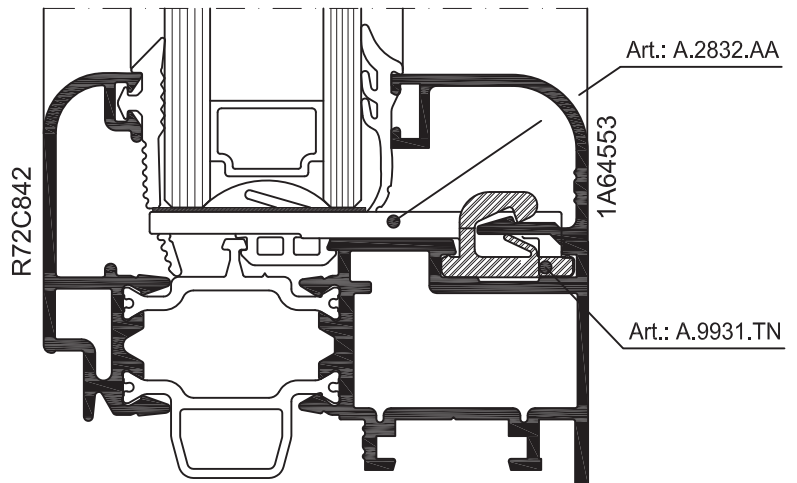
The above combinations were obtained considering the theoretic heights. It is always best to check tolerances to apply correct glass, glass beadings and weatherstrips.

● Spessore pannelli / Panel thickness

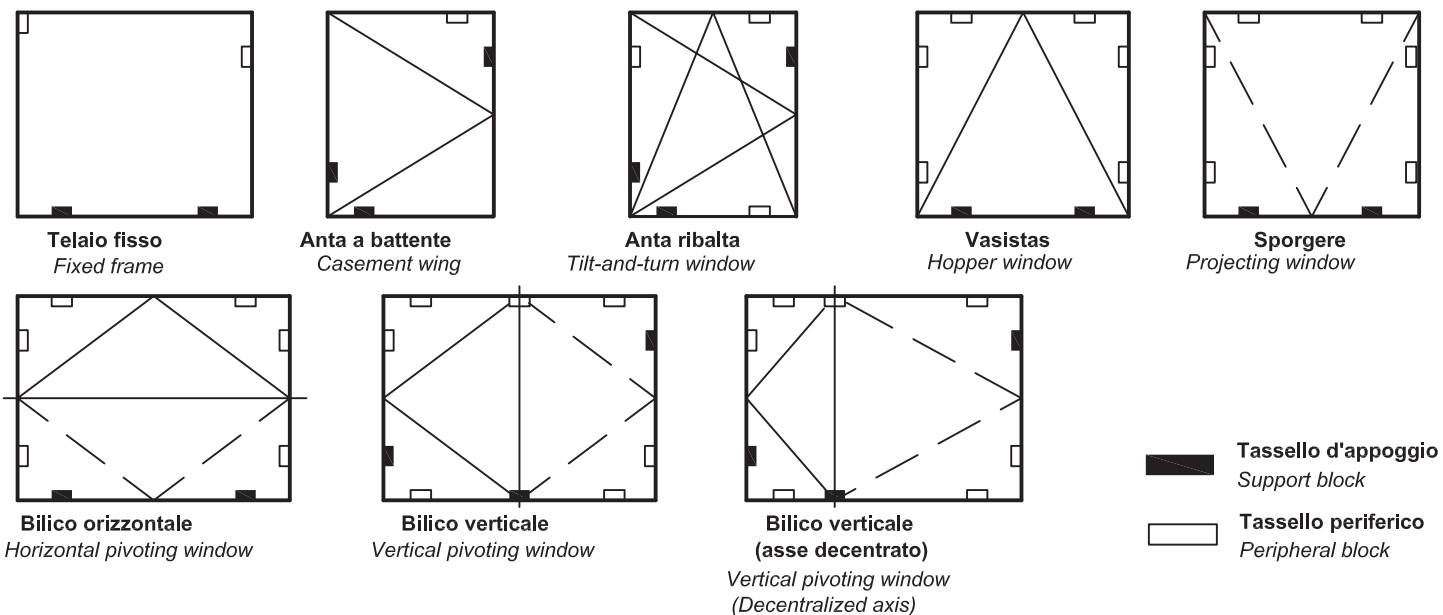
POSIZIONAMENTO ACCESSORIO FERMAVETRO ARROTONDATO
ROUNDED GLASSES BEADING ACCESSORY POSITIONING

Sezione Fermavetri Glass Beading Section		Dimensione Size	Soluzione 1 Solution 1	Soluzione 2 Solution 2
		36 mm	 <p>L = Fermavetro Glass Beading</p> <p>H = Fermavetro Glass Beading</p>	 <p>L = Fermavetro Glass Beading</p>
1A68137	1A64555			
		31 mm		
	1A64554			
		26 mm		
1A64053	1A64553			
		21 mm		
1A64052	1A64552			
		18 mm		
1A64246	1A64421			
		16 mm		
1A64247	1A64556			
		11 mm		
1A64248	1A64557			







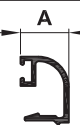
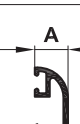
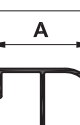

-  = Fermavetro arr. a scatto
Radiused glass beading snap
-  = Fermavetro arr. con accessorio A.9931.TN
Radiused glass beading with accessorio A.9931.TN
-  = Art. A.9931.TN

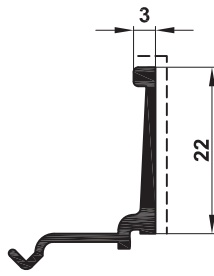


SPESSORAMENTO VETRI
GLASS SHIM

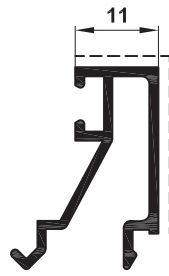


Profilato Section	Sezione Cross section 	A mm	Peso Weight Kg/m	Perimetro Perimeter mm	Superficie in vista Exposed surface m ² /m	Jx cm ⁴	Wx cm ³	Jy cm ⁴	Wy cm ³
1A58948		26	0,315	198	0,048	—	—	—	—
1A58949		21	0,272	172	0,043	—	—	—	—
1A59847		11	0,252	159	0,033	—	—	—	—
1A59848		16	0,257	162	0,038	—	—	—	—
1A59849		31	0,332	208	0,053	—	—	—	—
1A59850		36	0,348	218	0,058	—	—	—	—
1A62167		18	0,262	165	0,040	—	—	—	—
1A64052		21	0,255	159	0,038	—	—	—	—
1A64053		26	0,296	185	0,043	—	—	—	—
1A64246		18	0,244	154	0,035	—	—	—	—
1A64247		16	0,240	151	0,033	—	—	—	—
1A64248		11	0,234	146	0,028	—	—	—	—

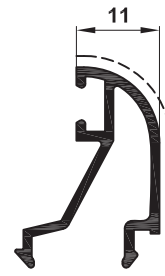
Profilato Section	Sezione Cross section 	A mm	Peso Weight Kg/m	Perimetro Perimeter mm	Superficie in vista Exposed surface m ² /m	Jx cm ⁴	Wx cm ³	Jy cm ⁴	Wy cm ³
1A64421		18	0,243	125	0,035	—	—	—	—
1A64552		21	0,256	131	0,038	—	—	—	—
1A64553		26	0,276	141	0,043	—	—	—	—
1A64554		31	0,296	151	0,048	—	—	—	—
1A64555		36	0,317	161	0,053	—	—	—	—
1A64556		16	0,236	121	0,033	—	—	—	—
1A64557		11	0,215	108	0,028	—	—	—	—
1A68137		36	0,328	205	0,054	—	—	—	—
1A70796		3	0,181	94	0,025	—	—	—	—



1A70796



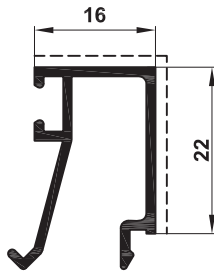
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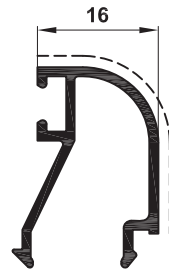
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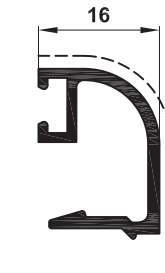
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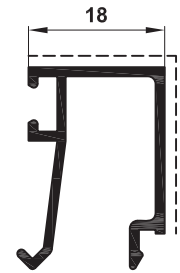
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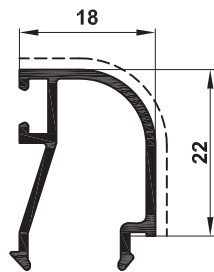
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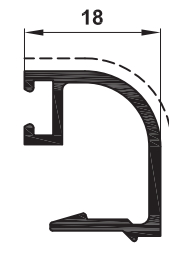
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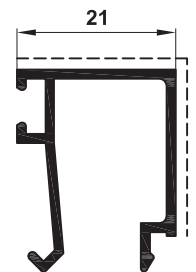
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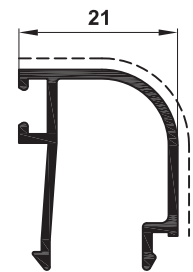
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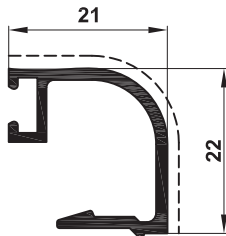
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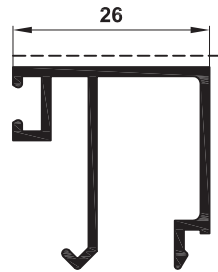
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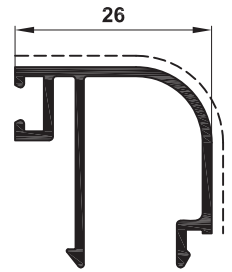
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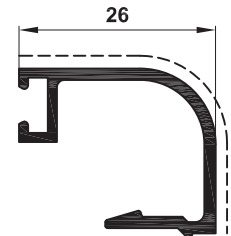
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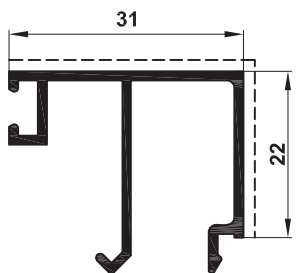
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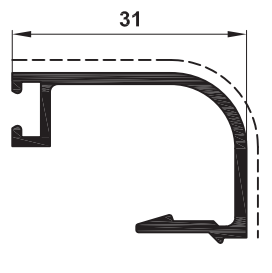
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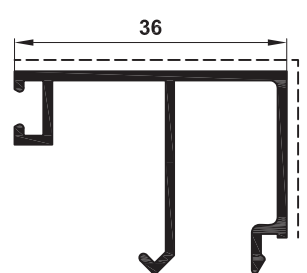
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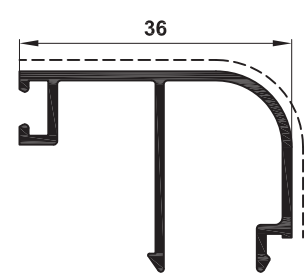
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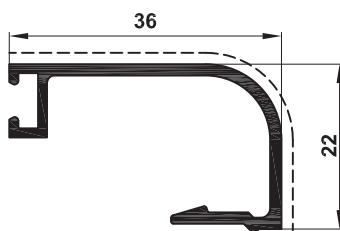
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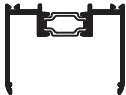
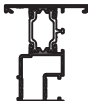

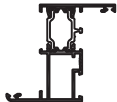



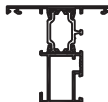


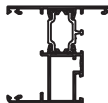
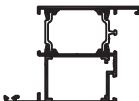


1A68137



1A64555

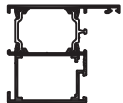


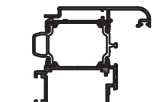
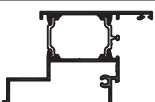



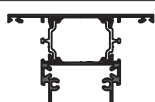
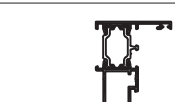
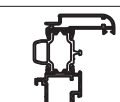
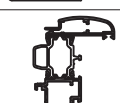
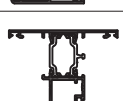
ELENCO PROFILATI
LIST OF SECTIONS

Profilato Section	Comp.ne Composition	Sezione Cross section	Peso Weight Kg/m	Perimetro Perimeter mm	Superficie in vista Exposed surface m ² /m	Jx cm ⁴	Wx cm ³	Jy cm ⁴	Wy cm ³
R72C118 R72D118	600051 A.0335.LN A.0335.LN 600051		1,554	412	0,200	12,34	7,13	43,63	8,16
R72C128 R72D128	800830 A.0335.LN A.0335.LN 800830		1,156	467	0,105	8,27	2,26	27,61	7,82
R72C729 R72D729	800871 A.0335.LN A.0334.LN 800910		1,304	376	0,104	23,05	6,31	7,45	2,12
R72C835 R72D835	800508 A.0335.LN A.0334.LN 800899		1,378	416	0,112	23,88	6,37	9,27	2,54
R72C841 R72D841	800504 A.0335.LN A.0334.LN 800868		1,304	407	0,110	24,67	7,64	8,81	2,40
R72C842 R72D842	800507 A.0333.LN A.0334.LN 800869		1,536	439	0,120	33,29	8,98	10,84	3,05
R72C843 R72D843	800871 A.0335.LN A.0334.LN 800870		1,331	397	0,103	24,00	6,14	7,17	2,07
R72C844 R72D844	800504 A.0335.LN A.0334.LN 800884		1,191	344	0,085	20,37	5,70	5,29	1,63
R72C845 R72D845	800508 A.0335.LN A.0334.LN 800884		1,307	408	0,112	23,17	6,02	9,06	2,48
R72C846 R72D846	800511 A.0334.LN A.0334.LN 800890		2,820	604	0,284	52,65	15,36	187,27	23,70
R72C847 R72D847	800511 A.0335.LN A.0334.LN 800891		2,994	636	0,308	57,56	17,69	219,79	26,60
R72C848 R72D848	800508 A.0335.LN A.0334.LN 800868		1,420	470	0,138	28,34	8,05	11,95	3,15
R72C849 R72D849	800514 A.0335.LN A.0334.LN 800888		1,671	454	0,159	33,43	10,43	27,99	5,70

Le lettere C e D presenti nei codici sopra riportati stanno ad indicare rispettivamente:
C = profili interno ed esterno più barrette assemblati - es. R72C841
D = profili interno ed esterno più barrette non assemblati - es. R72D841
N.B.: I profilati sono forniti in lunghezza di 6800 mm

The letters C and D in the above codes indicate respectively:
C = Assembled internal and external sections with bars - ex. R72C841
D = Non assembled internal and external sections with bars - ex. R72D841
The sections are supplied with length of 6800 mm




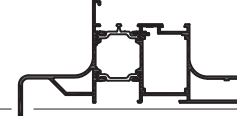
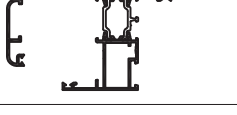

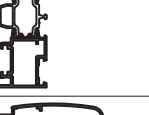
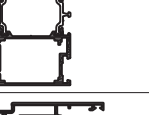
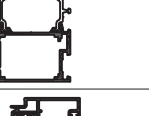
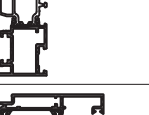
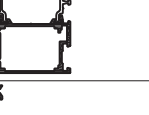
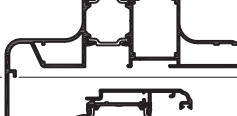
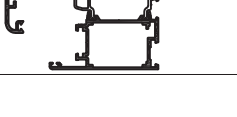
ELENCO PROFILATI
LIST OF SECTIONS

Profilato Section	Comp.ne Composition	Sezione Cross section	Peso Weight Kg/m	Perimetro Perimeter mm	Superficie in vista Exposed surface m ² /m	Jx cm ⁴	Wx cm ³	Jy cm ⁴	Wy cm ³
R72C850 R72D850	800514 A.0335.LN A.0334.LN 800886		1,559	392	0,130	29,24	8,49	20,84	4,76
R72C851 R72D851	800516 A.0335.LN A.0334.LN 800886		1,679	456	0,157	32,35	8,85	28,45	5,81
R72C852 R72D852	800516 A.0335.LN A.0334.LN 800888		1,791	518	0,186	37,18	10,87	34,59	6,95
R72C853 R72D853	800517 A.0333.LN A.0334.LN 800882		2,021	518	0,162	46,66	12,92	33,83	7,02
R72C854 R72D854	800514 A.0335.LN A.0334.LN 800887		1,734	418	0,153	32,56	10,09	35,78	7,26
R72C859 R72D859	800538 A.0335.LN A.0335.LN 800901		1,174	317	0,083	20,89	5,85	4,84	1,58
R72C860 R72D860	800538 A.0335.LN A.0335.LN 800900		1,286	379	0,108	23,57	6,15	8,30	2,28
R72C861 R72D861	800504 A.0335.LN A.0335.LN 800900		1,404	442	0,135	28,94	8,30	11,38	3,15
R72C869 R72D869	800516 A.0334.LN A.0334.LN 800889		1,887	457	0,157	32,08	9,09	31,74	6,61
R72C870 R72D870	800504 A.0335.LN A.0334.LN 800893		1,482	490	0,145	30,33	8,47	27,59	4,31
R72C873 R72D873	800618 A.0333.LN A.0334.LN 800869		1,554	414	0,120	33,31	9,04	11,43	3,16
R72C875 R72D875	800621 A.0333.LN A.0334.LN 800869		1,608	413	0,122	35,79	9,81	11,75	3,22
R72C877 R72D877	800508 A.0335.LN A.0334.LN 800896		1,424	472	0,138	28,56	8,14	12,16	3,20

Le lettere C e D presenti nei codici sopra riportati stanno ad indicare rispettivamente:
C = profili interno ed esterno più barrette assemblati - es. R72C841
D = profili interno ed esterno più barrette non assemblati - es. R72D841
N.B.: I profilati sono forniti in lunghezza di 6800 mm

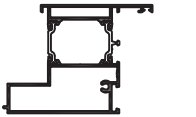
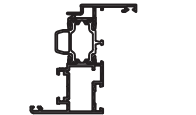
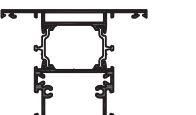
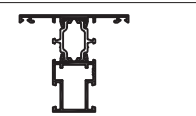
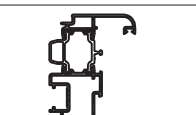
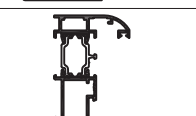

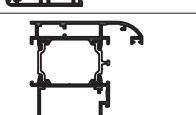
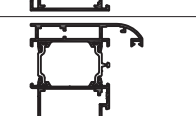
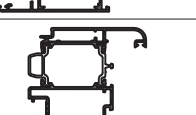
The letters C and D in the above codes indicate respectively:
C = Assembled internal and external sections with bars - ex. R72C841
D = Non assembled internal and external sections with bars - ex. R72D841
The sections are supplied with length of 6800 mm

ELENCO PROFILATI
LIST OF SECTIONS

Profilato Section	Comp.ne Composition	Sezione Cross section	Peso Weight Kg/m	Perimetro Perimeter mm	Superficie in vista Exposed surface m ² /m	Jx cm ⁴	Wx cm ³	Jy cm ⁴	Wy cm ³
R72C881 R72D881	800648 A.0335.LN A.0334.LN 800884		1,406	401	0,090	28,97	6,89	7,43	2,35
R72C882 R72D882	800648 A.0335.LN A.0334.LN 800868		1,519	463	0,116	35,22	9,11	11,21	2,96
R72C883 R72D883	800649 A.0333.LN A.0334.LN 800869		1,544	468	0,121	33,76	9,17	10,97	3,07
R72C888 R72D888	800690 A.0335.LN A.0334.LN 800892		2,870	875	0,248	80,53	10,51	214,83	23,90
R72C890 R72D890	800504 A.0335.LN A.0334.LN 800896		1,308	408	0,111	24,93	7,73	9,05	2,48
R72C896 R72D896	800730 A.0334.LN 800895		0,878	361	0,020	19,25	4,34	0,63	0,44
R72C898 R72D898	800722 A.0333.LN A.0334.LN 800869		1,552	486	0,121	33,14	8,97	11,32	3,14
R72C900 R72D900	800770 A.0333.LN A.0334.LN 800882		2,068	461	0,165	49,03	13,35	35,46	7,27
R72C903 R72D903	800788 A.0333.LN A.0334.LN 800882		2,014	500	0,158	47,65	13,23	30,75	6,53
R72C905 R72D905	800802 A.0333.LN A.0334.LN 800869		1,546	469	0,125	34,04	9,29	11,38	3,17
R72C906 R72D906	800805 A.0333.LN A.0334.LN 800882		2,029	517	0,162	47,63	13,19	34,70	7,17
R72C907 R72D907	800806 A.0335.LN A.0334.LN 800892		3,016	873	0,242	85,61	11,26	220,82	24,05
R72C909 R72D909	800827 A.0333.LN A.0334.LN 800882		2,031	523	0,162	47,54	13,16	34,34	7,11

Le lettere C e D presenti nei codici sopra riportati stanno ad indicare rispettivamente:
C = profili interno ed esterno più barrette assemblati - es. R72C841
D = profili interno ed esterno più barrette non assemblati - es. R72D841
N.B.: I profilati sono forniti in lunghezza di 6800 mm

The letters C and D in the above codes indicate respectively:
C = Assembled internal and external sections with bars - ex. R72C841
D = Non assembled internal and external sections with bars - ex. R72D841
The sections are supplied with length of 6800 mm

Profilato Section	Comp.ne Composition	Sezione Cross section	Peso Weight Kg/m	Perimetro Perimeter mm	Superficie in vista Exposed surface m ² /m	Jx cm ⁴	Wx cm ³	Jy cm ⁴	Wy cm ³
R72C912 R72D912	800832 A.0335.LN A.0334.LN 800887		1,947	432	0,159	46,37	12,56	37,92	7,69
R72C913 R72D913	800831 A.0333.LN A.0334.LN 800869		1,494	425	0,115	32,72	8,67	9,17	2,58
R72C919 R72D919	800789 A.0334.LN A.0334.LN 800889		2,079	497	0,153	45,15	11,22	33,47	6,97
R72C921 R72D921	800508 A.0334.LN A.0334.LN 800885		1,350	434	0,112	23,23	6,08	9,36	2,60
R72C928 R72D928	800907 A.0333.LN A.0334.LN 800908		1,587	454	0,123	34,55	9,44	12,57	3,29
R72C944 R72D944	800917 A.0335.LN A.0334.LN 800884		1,452	407	0,095	30,98	7,16	7,38	2,32
R72C945 R72D945	800917 A.0335.LN A.0334.LN 800868		1,565	469	0,121	37,64	9,42	11,10	2,94
R72C946 R72D946	800918 A.0335.LN A.0334.LN 800886		1,934	453	0,139	44,78	10,47	27,12	6,25
R72C947 R72D947	800918 A.0335.LN A.0334.LN 800888		2,046	515	0,168	51,43	12,75	34,51	6,89
R72C948 R72D948	800919 A.0333.LN A.0334.LN 800920		1,964	498	0,164	45,61	12,29	32,58	6,72

Le lettere C e D presenti nei codici sopra riportati stanno ad indicare rispettivamente:
C = profili interno ed esterno più barrette assemblati - es. R72C841
D = profili interno ed esterno più barrette non assemblati - es. R72D841
N.B.: I profilati sono forniti in lunghezza di 6800 mm

The letters C and D in the above codes indicate respectively:
C = Assembled internal and external sections with bars - ex. R72C841
D = Non assembled internal and external sections with bars - ex. R72D841
The sections are supplied with length of 6800 mm

ELENCO PROFILATI
LIST OF SECTIONS

Profilato <i>Section</i>	Sezione <i>Cross section</i>	Peso <i>Weight</i> Kg/m	Perlm. <i>Perim.</i> mm	Sup. In vista <i>Exposed surface</i> m ² /m	Profilato <i>Section</i>	Sezione <i>Cross section</i>	Peso <i>Weight</i> Kg/m	Perlm. <i>Perim.</i> mm	Sup. In vista <i>Exposed surface</i> m ² /m
100009		0,234	82	0,029	800648		0,605	229	0,060
100342		0,143	64	0,025	800649		0,505	197	0,061
600040		0,900	333	0,057	800690		1,431	531	0,196
600041		0,838	306	0,052	800722		0,513	164	0,061
600051		0,694	271	0,100	800729		0,383	159	0,058
800291		0,629	231	0,080	800730		0,297	131	0,000
800504		0,390	172	0,055	800737		0,980	333	0,105
800507		0,497	193	0,060	800738		0,170	92	0,027
800508		0,506	236	0,082	800759		1,370	469	0,188
800511		0,924	409	0,168	800760		1,043	354	0,146
800514		0,506	221	0,079	800761		1,193	389	0,165
800516		0,626	285	0,106	800762		1,542	540	0,222
800517		0,714	241	0,084	800770		0,761	210	0,087
800538		0,272	108	0,028	800788		0,707	229	0,080
800618		0,515	163	0,060	800789		0,818	300	0,102
800621		0,569	162	0,062	800802		0,507	197	0,065

N.B.: I profilati sono forniti in lunghezza di 6800 mm

The sections are supplied with length of 6800 mm













ELENCO PROFILATI
LIST OF SECTIONS

Profilato <i>Section</i>	Sezione <i>Cross section</i>	Peso <i>Weight</i> Kg/m	Perlm. <i>Perim.</i> mm	Sup. In vista <i>Exposed surface</i> m ² /m	Profilato <i>Section</i>	Sezione <i>Cross section</i>	Peso <i>Weight</i> Kg/m	Perlm. <i>Perim.</i> mm	Sup. In vista <i>Exposed surface</i> m ² /m
800805		0,722	245	0,084	800888		0,987	304	0,080
800806		1,577	518	0,190	800889		1,071	240	0,051
800827		0,724	246	0,084	800890		1,706	363	0,116
800830		0,495	221	0,054	800891		1,892	422	0,140
800831		0,455	175	0,055	800892		1,261	407	0,052
800832		0,719	236	0,085	800893		0,914	339	0,090
800839		0,498	188	0,080	800894		0,279	114	0,035
800868		0,736	255	0,056	800895		0,486	189	0,020
800869		0,827	263	0,060	800896		0,740	257	0,056
800870		0,703	216	0,028	800899		0,694	201	0,030
800871		0,450	202	0,075	800900		0,848	304	0,080
800882		1,095	312	0,078	800901		0,736	242	0,055
800884		0,623	193	0,030	800907		0,523	197	0,066
800885		0,654	191	0,030	800908		0,852	284	0,057
800886		0,875	243	0,051	800910		0,676	194	0,029
800887		1,050	268	0,074	800917		0,651	234	0,065

N.B.: I profilati sono forniti in lunghezza di 6800 mm




The sections are supplied with length of 6800 mm

ELENCO PROFILATI
LIST OF SECTIONS

Profilato Section	Sezione Cross section	Peso Weight Kg/m	Perlm. Perim. mm	Sup. In vista Exposed surface m ² /m	Profilato Section	Sezione Cross section	Peso Weight Kg/m	Perlm. Perim. mm	Sup. In vista Exposed surface m ² /m
800918		0,881	283	0,088					
800919		0,731	239	0,086					
800920		1,021	326	0,078					
900316		0,213	133	0,068					
900319		0,413	138	0,000					
900390		0,286	104	0,030					
900424		0,220	93	0,037					
900600		1,102	441	0,186					
900601		0,820	302	0,136					
900602		0,980	381	0,156					
1F14039		0,411	103	0,000					
1A58951		0,146	49	0,000					

N.B.: I profilati sono forniti in lunghezza di 6800 mm

The sections are supplied with length of 6800 mm

Codice Code	Sezione Cross section	Peso Weight Kg/m
A.0333.LN		0,117
A.0334.LN		0,096
A.0335.LN		0,083

Scala 1:1
Scale 1:1

A.0333.LN



A.0334.LN

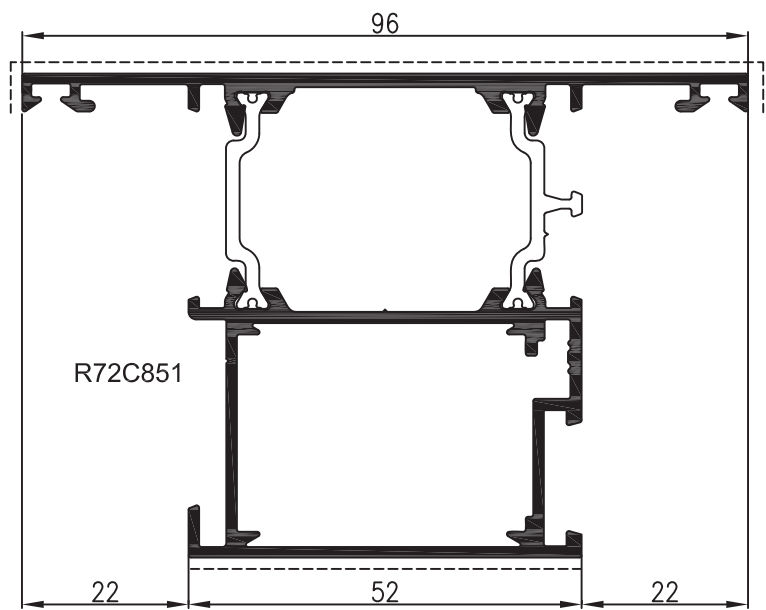
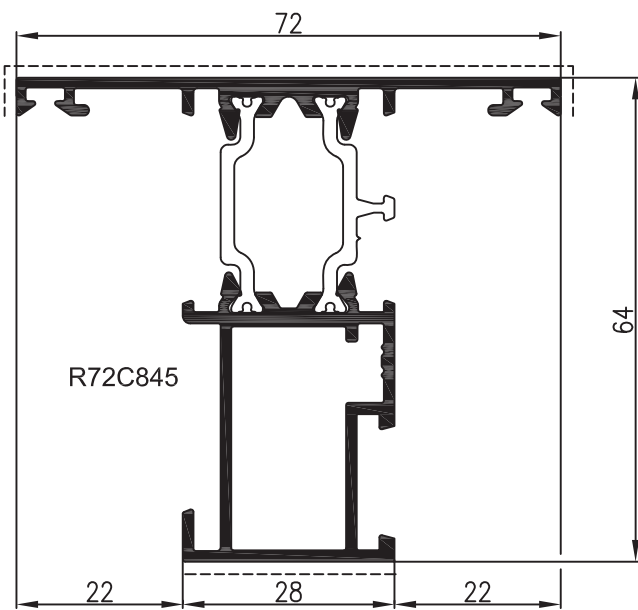
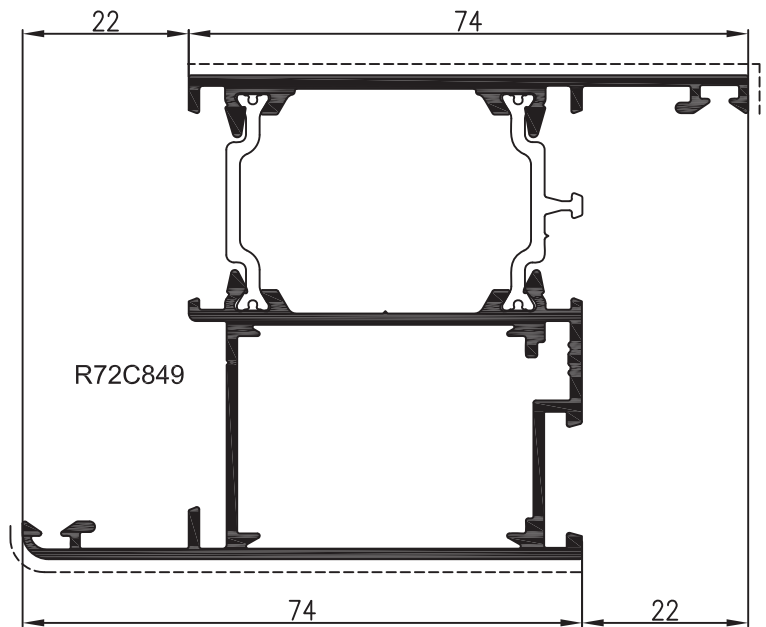
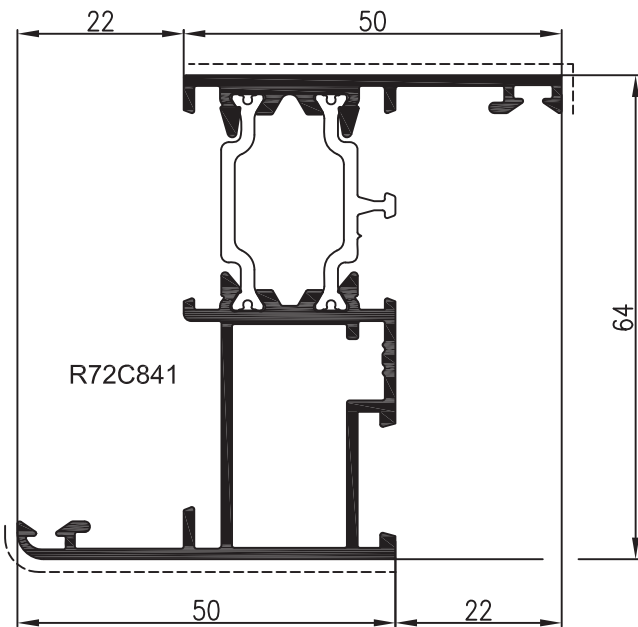
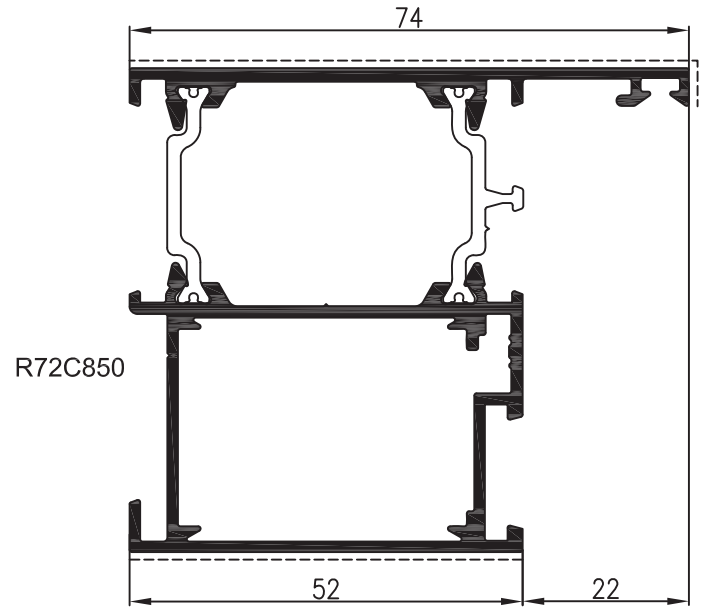
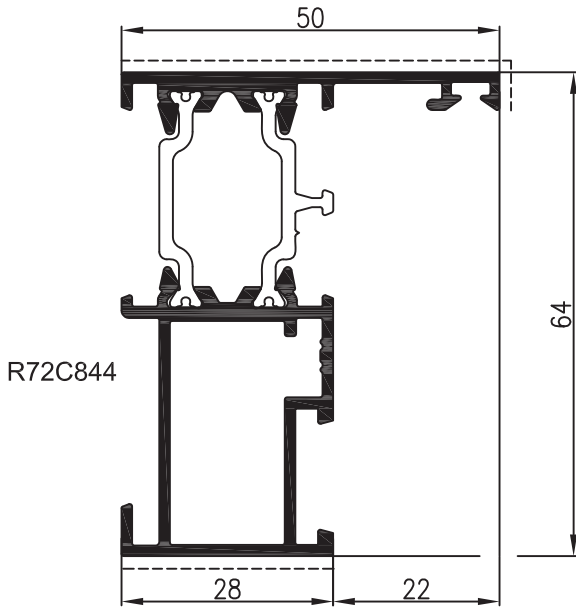


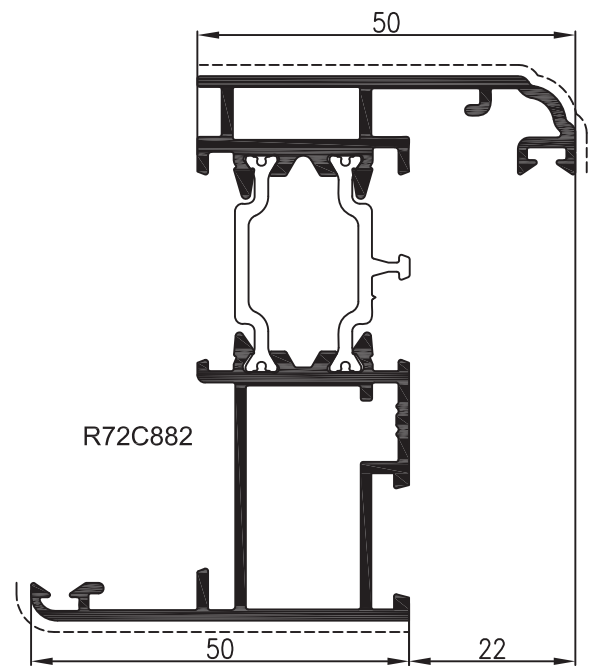
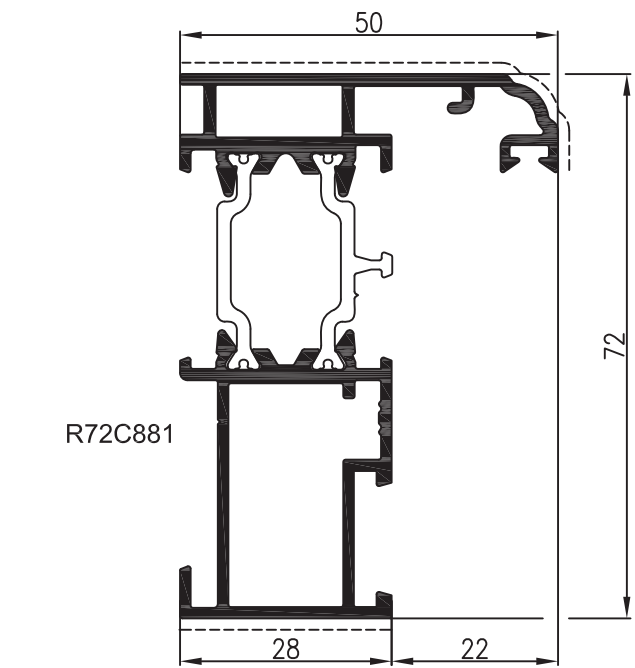
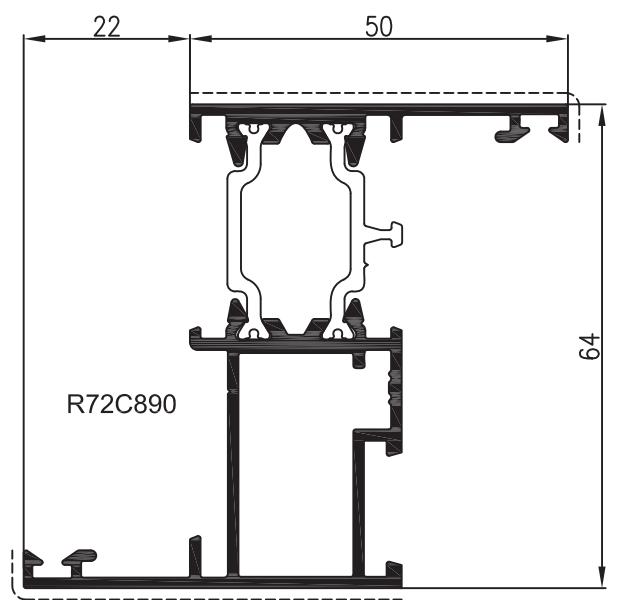
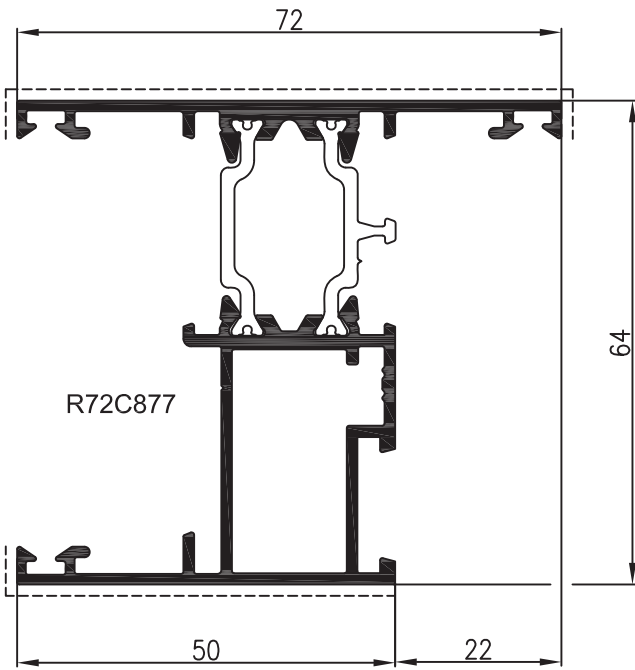
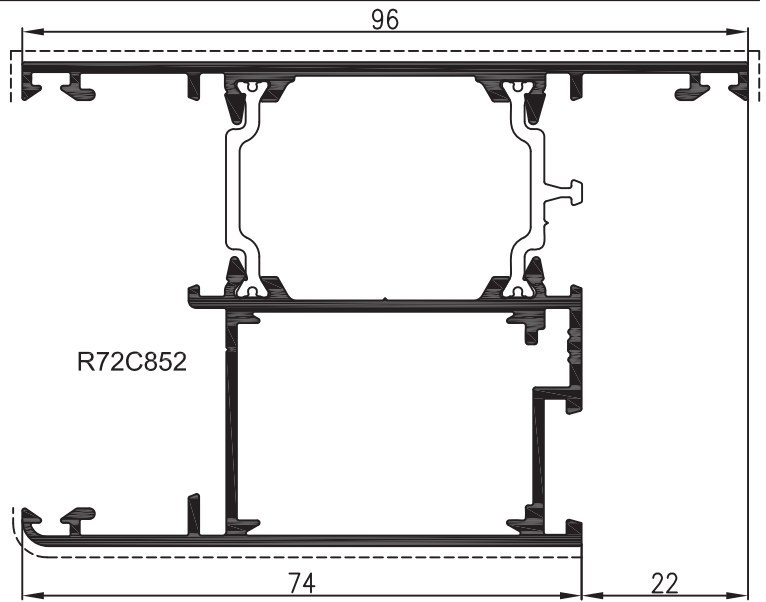
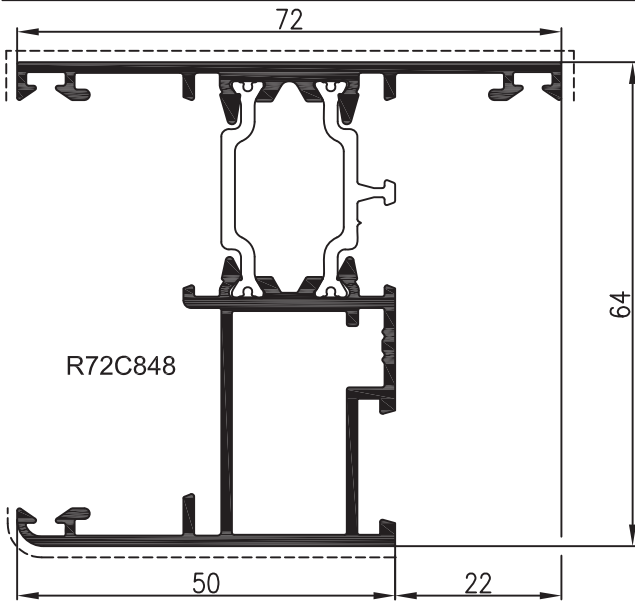
A.0335.LN

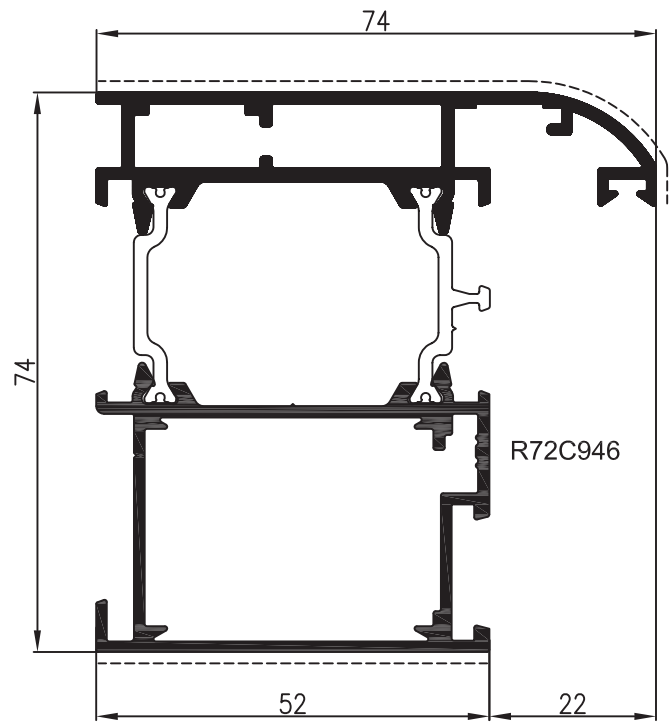
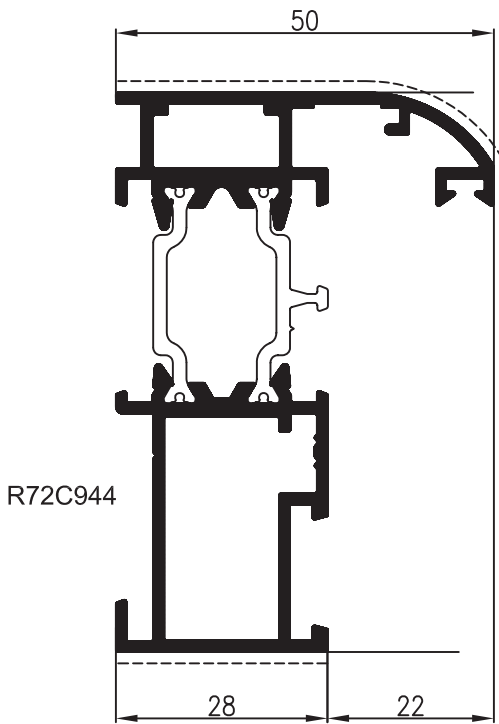
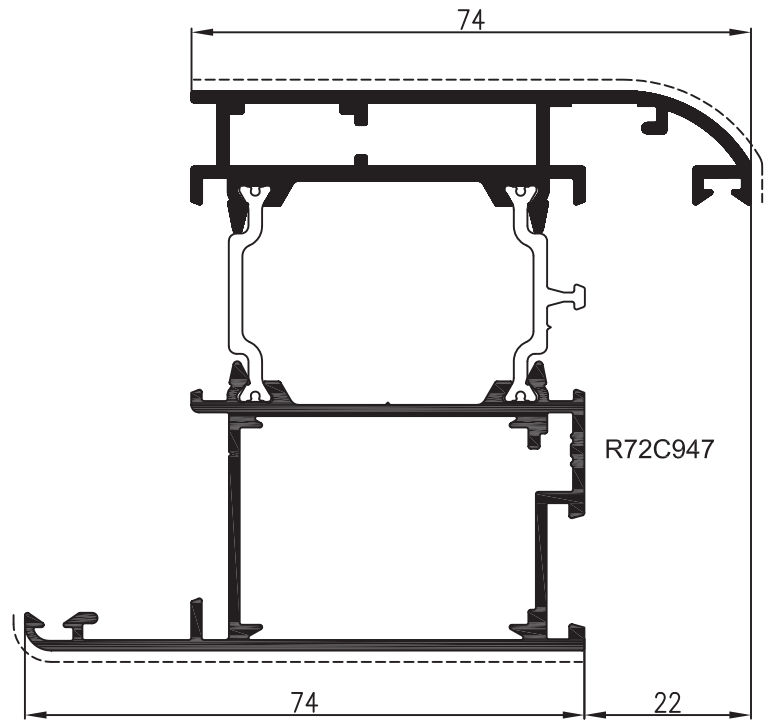
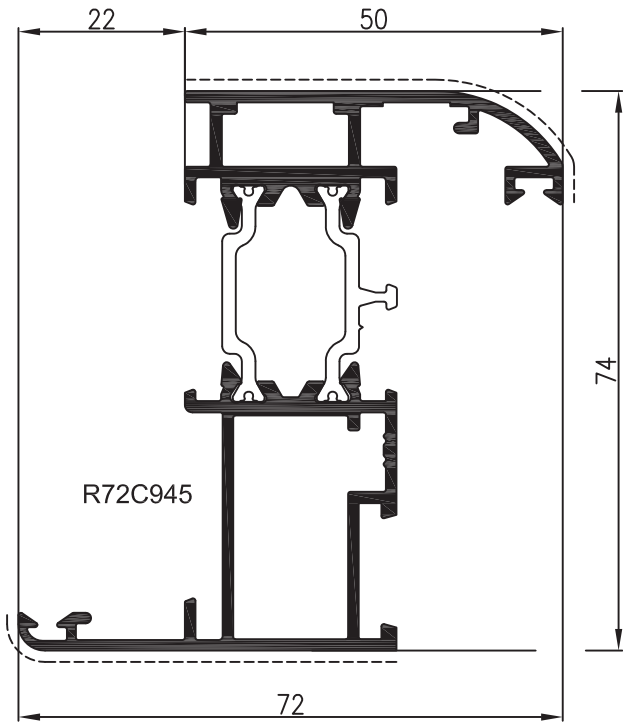


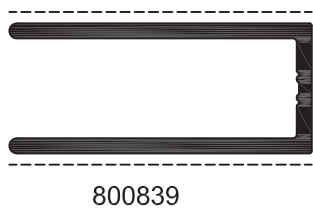
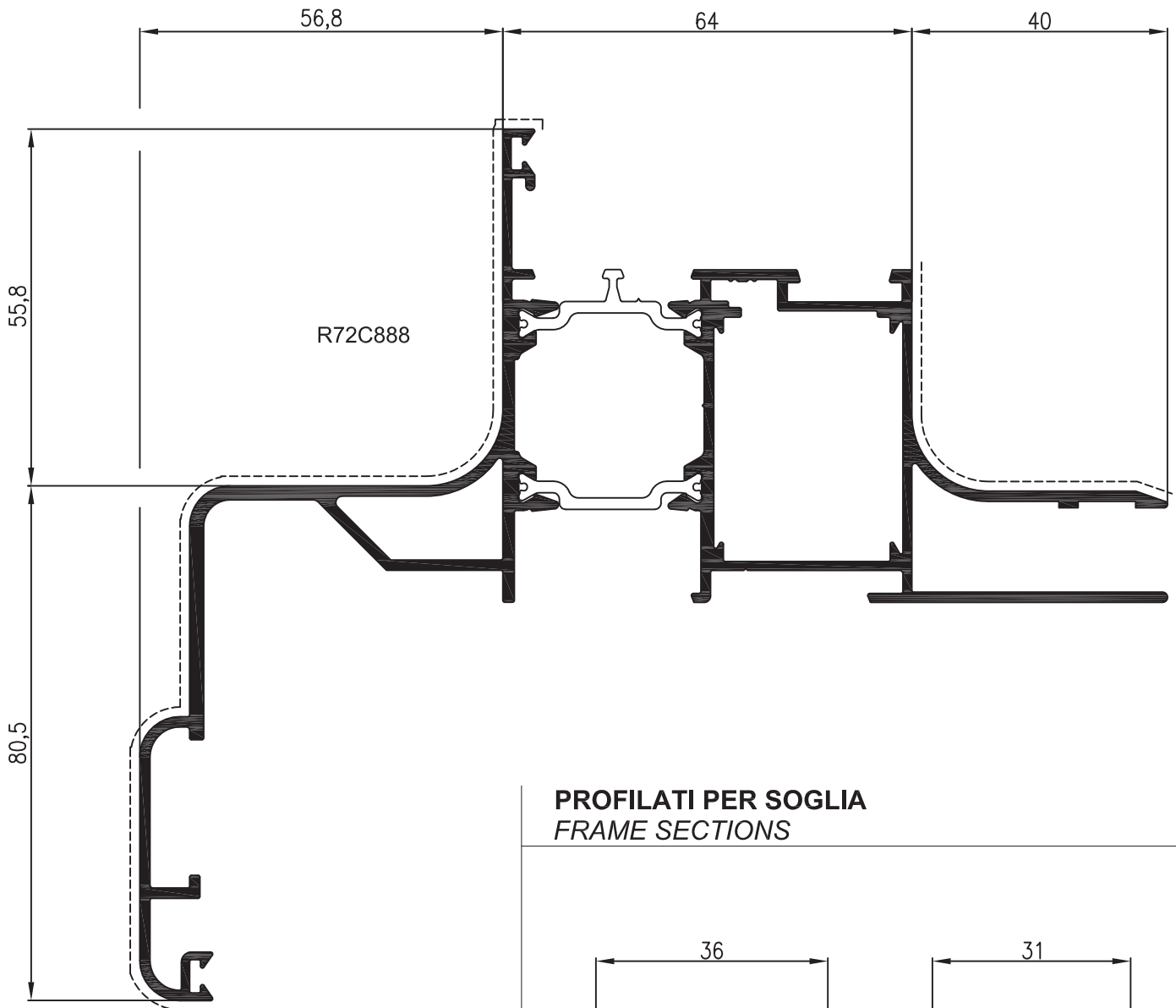
N.B.: I profilati sono forniti in lunghezza di 6800 mm

The sections are supplied with length of 6800 mm

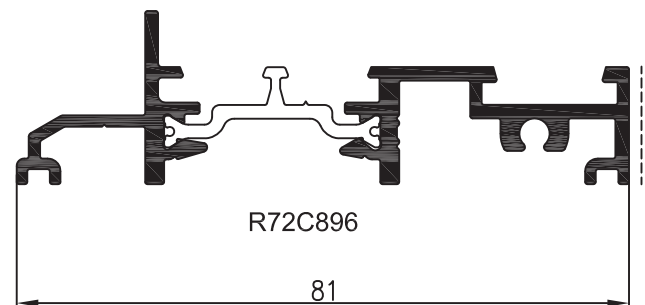
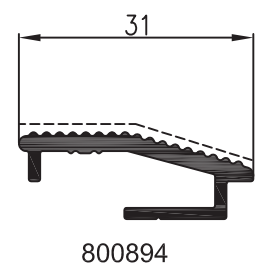
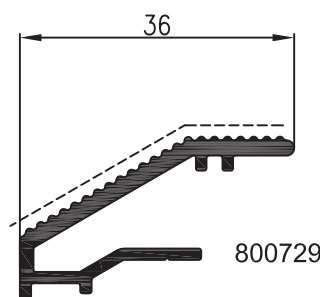


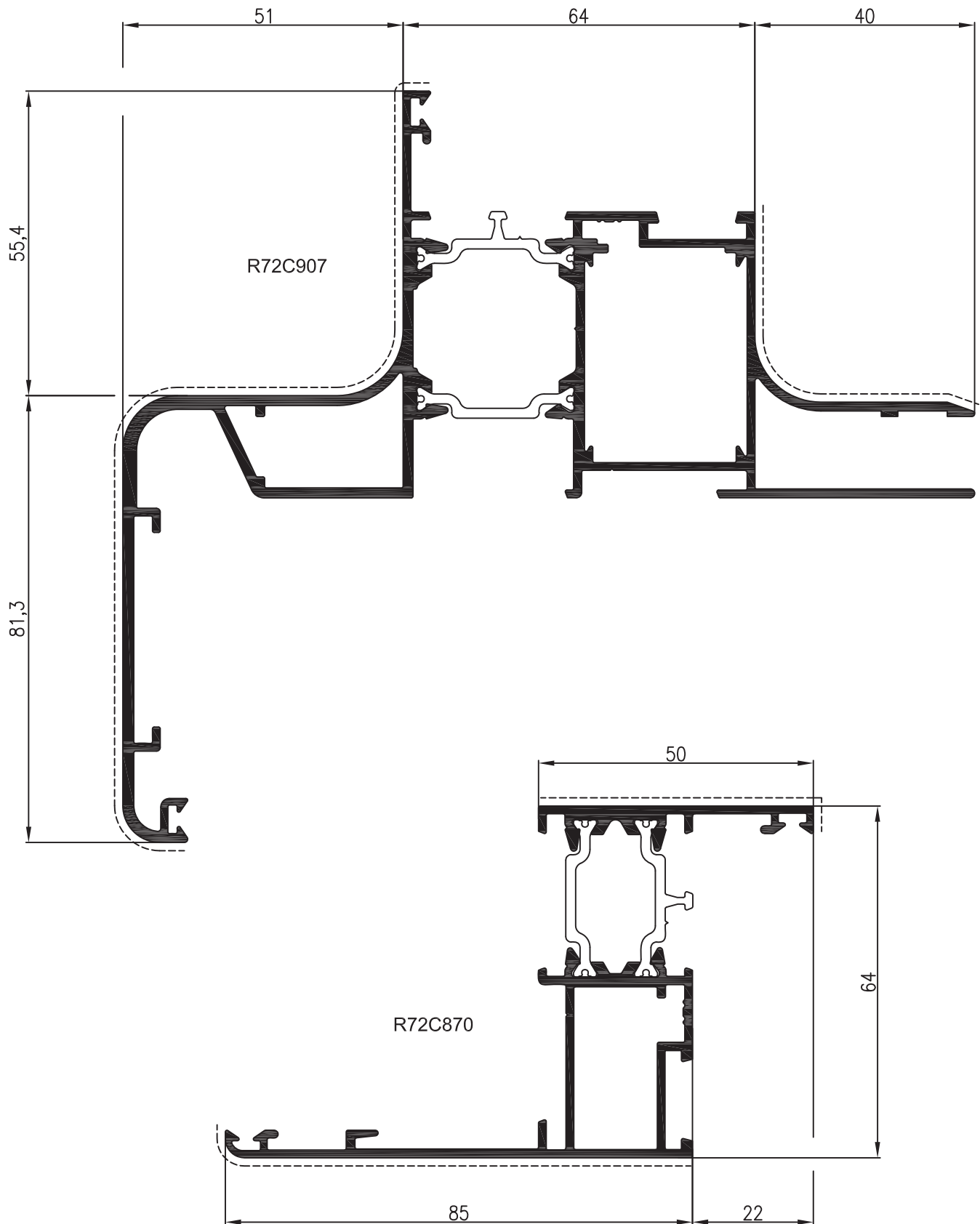


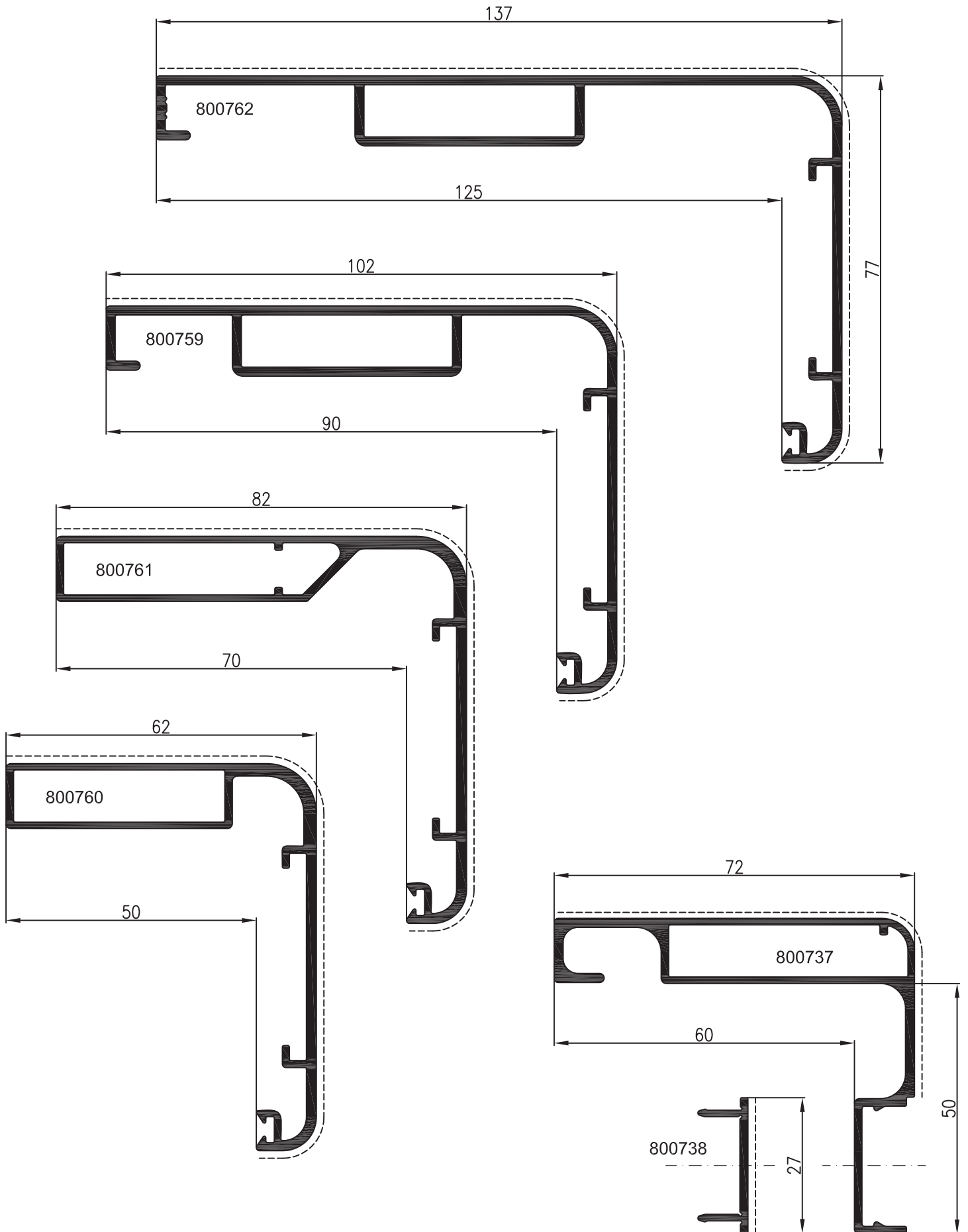


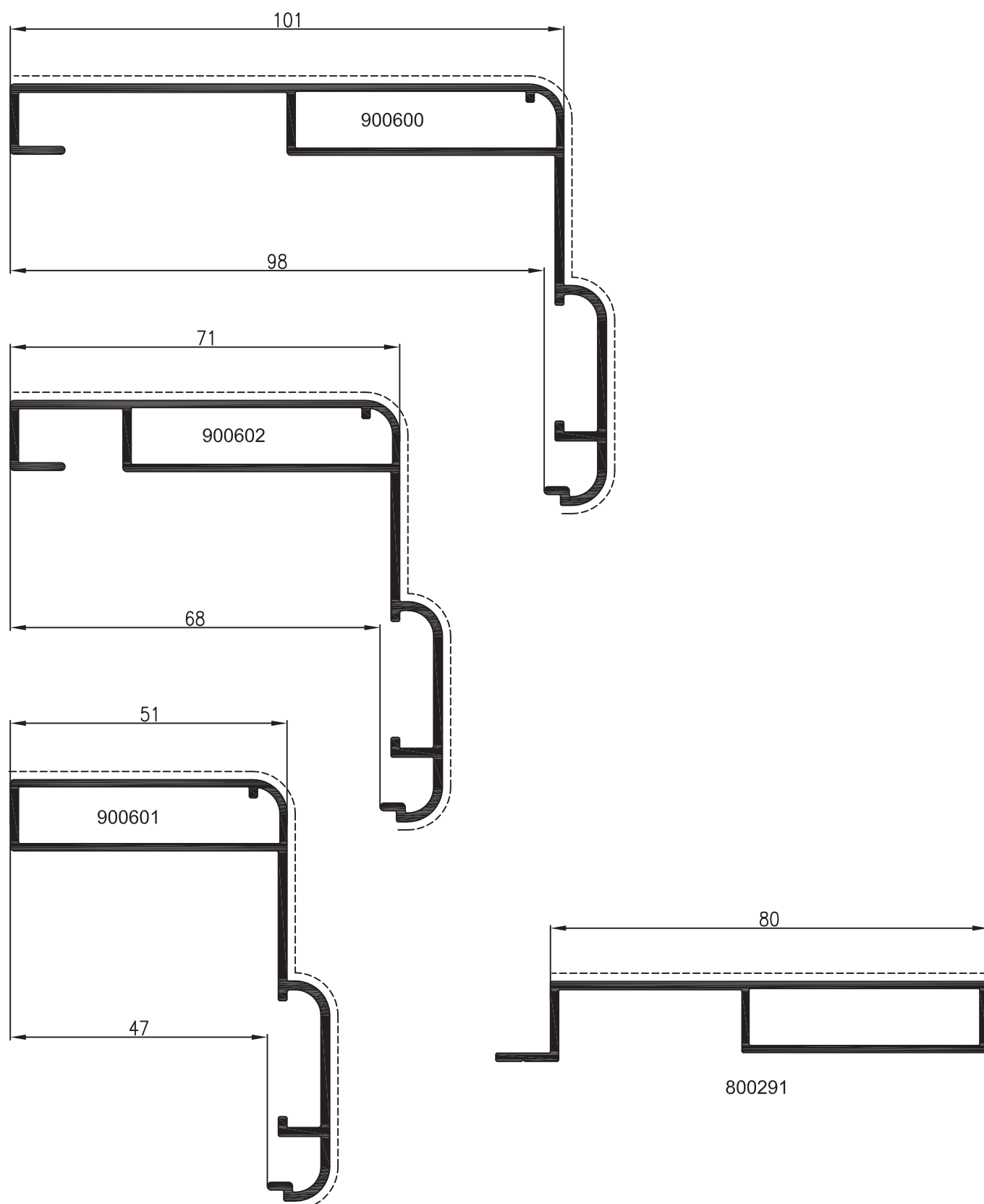


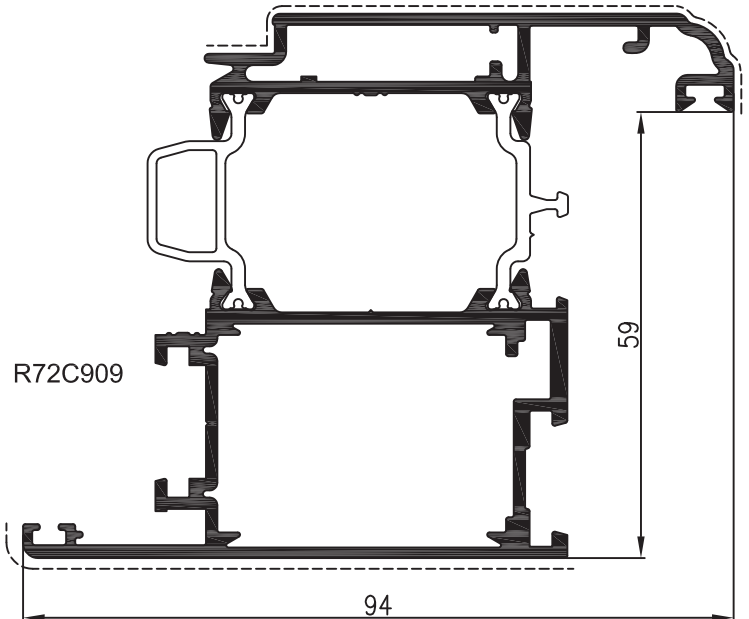
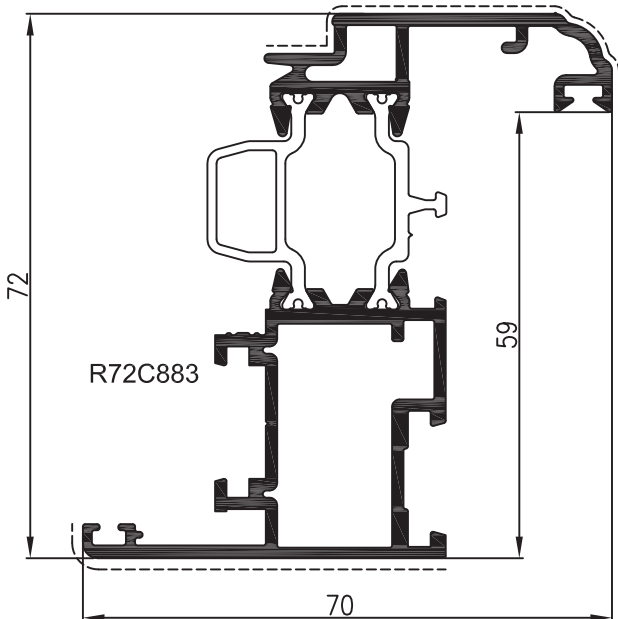
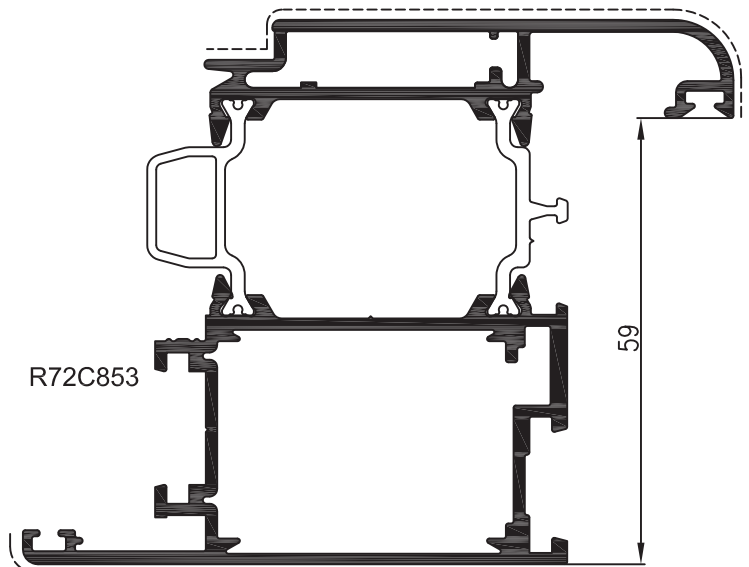
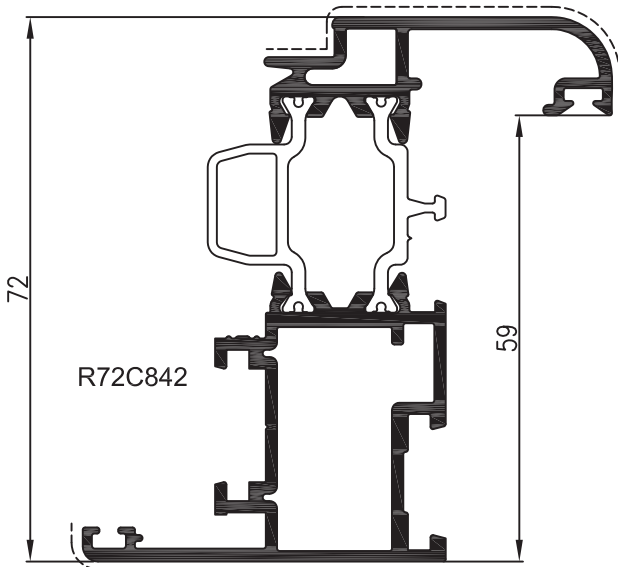
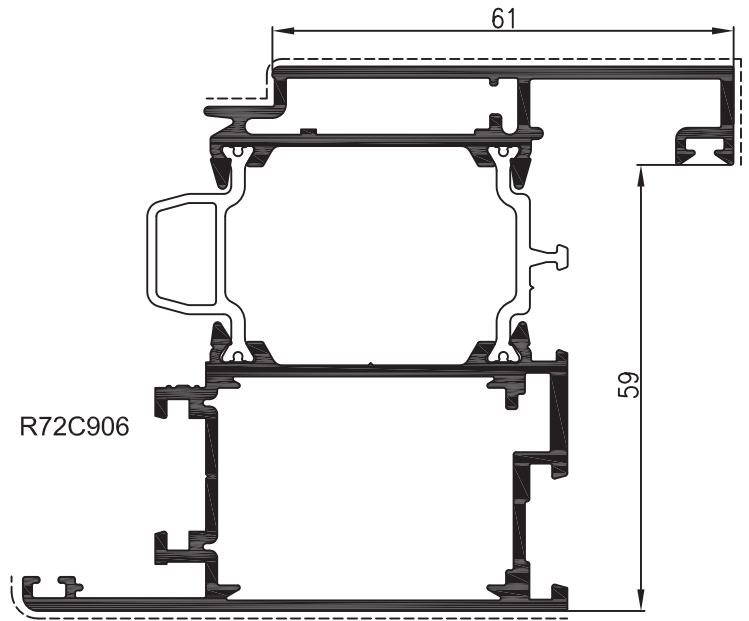
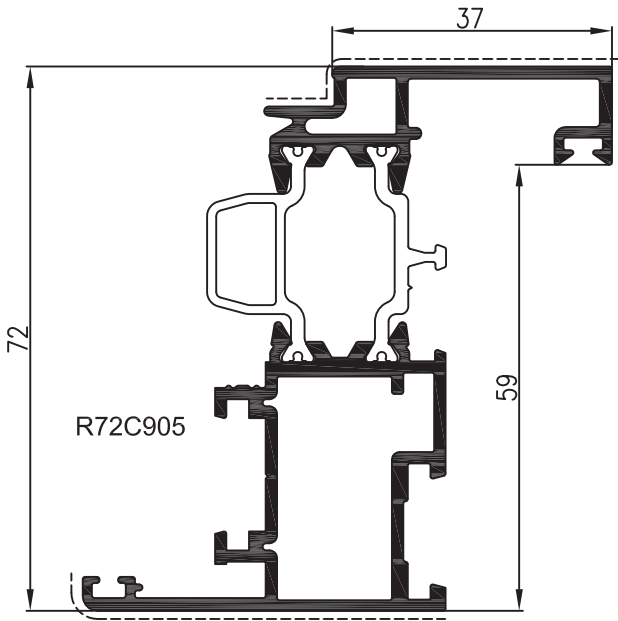
PROFILATI PER SOGLIA
FRAME SECTIONS

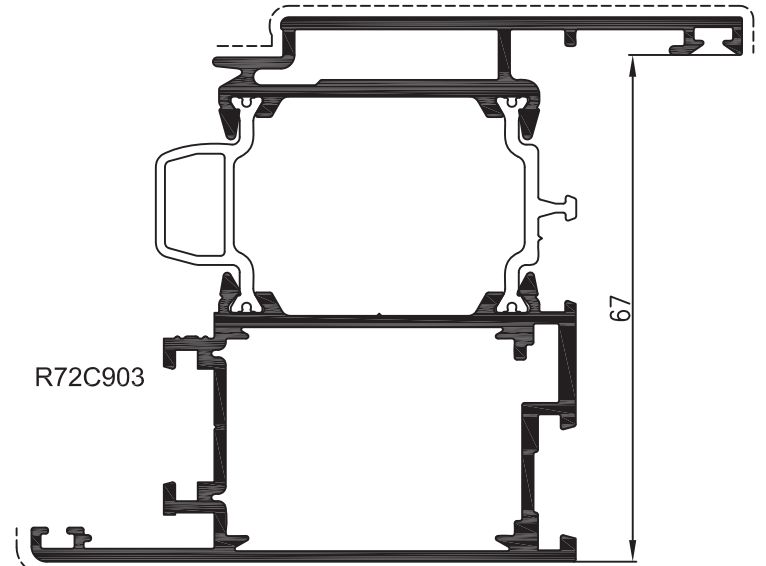
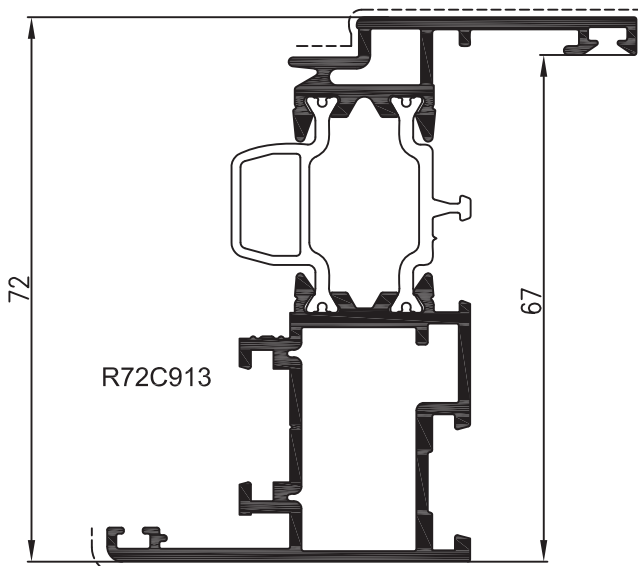
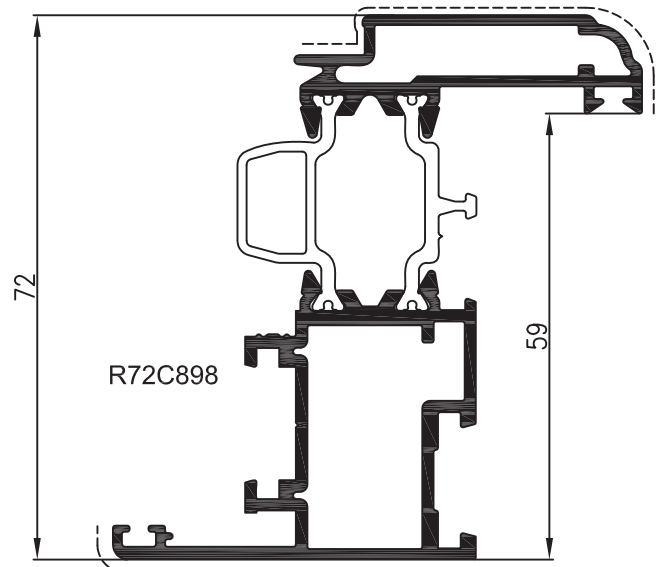
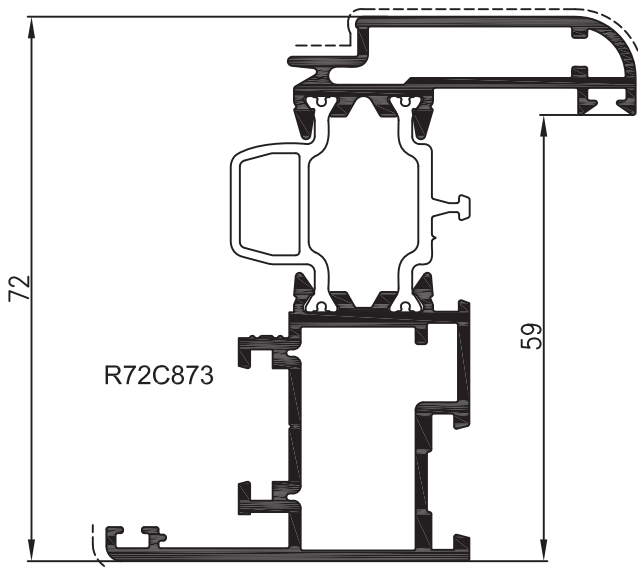
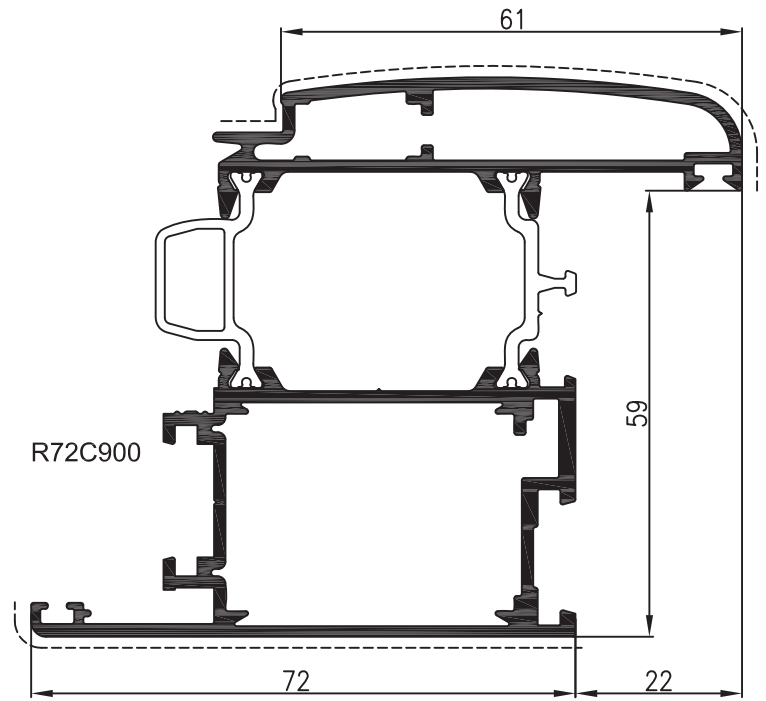
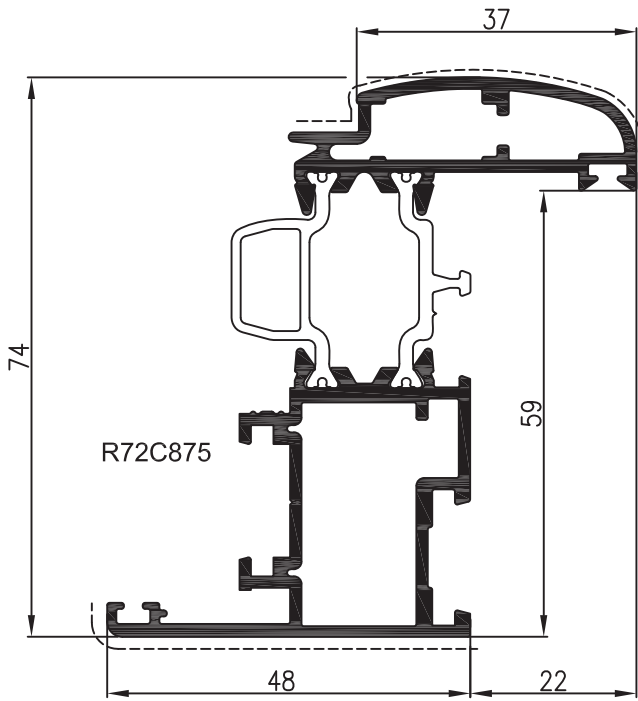


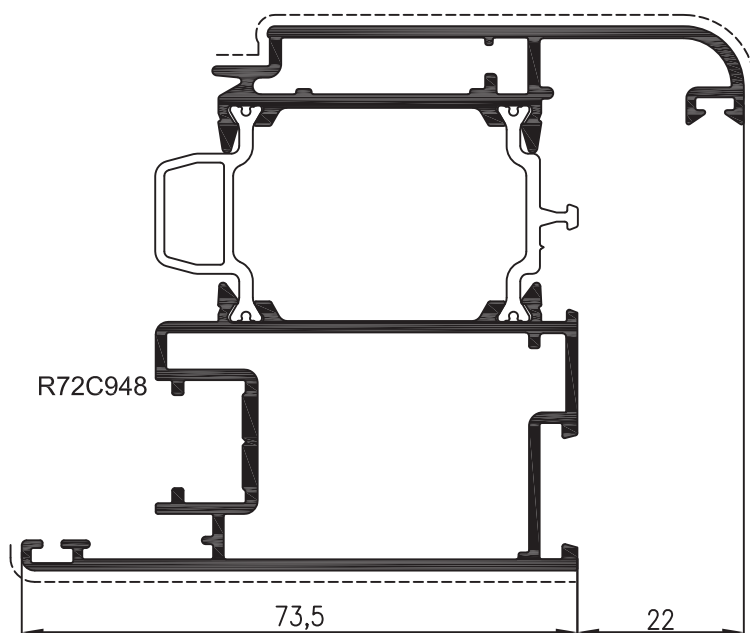
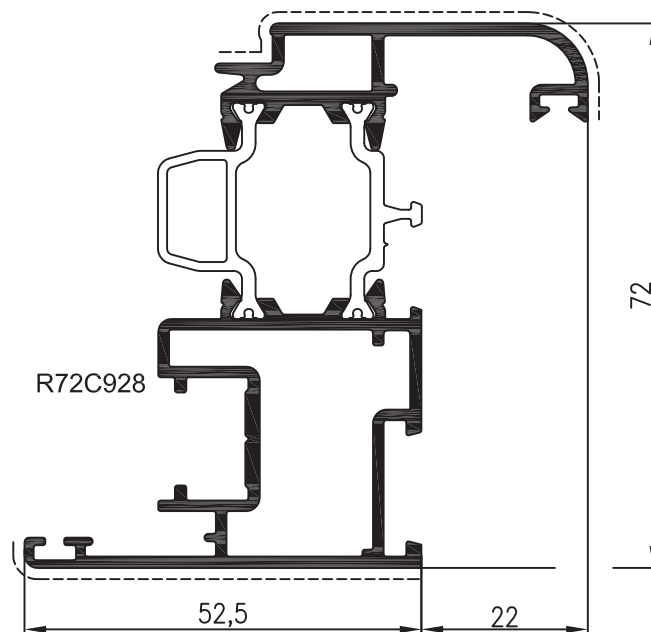
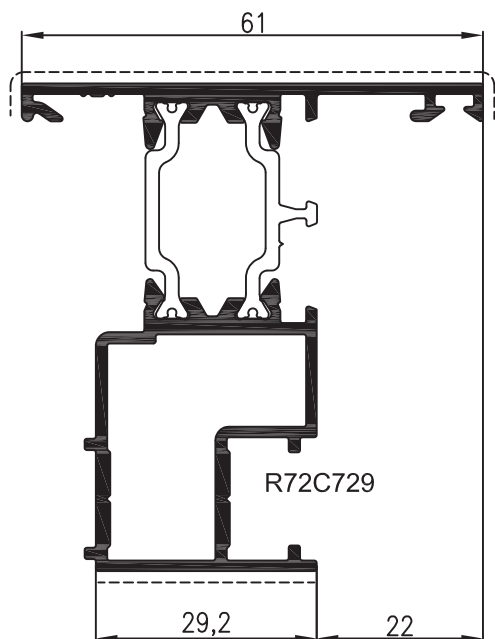


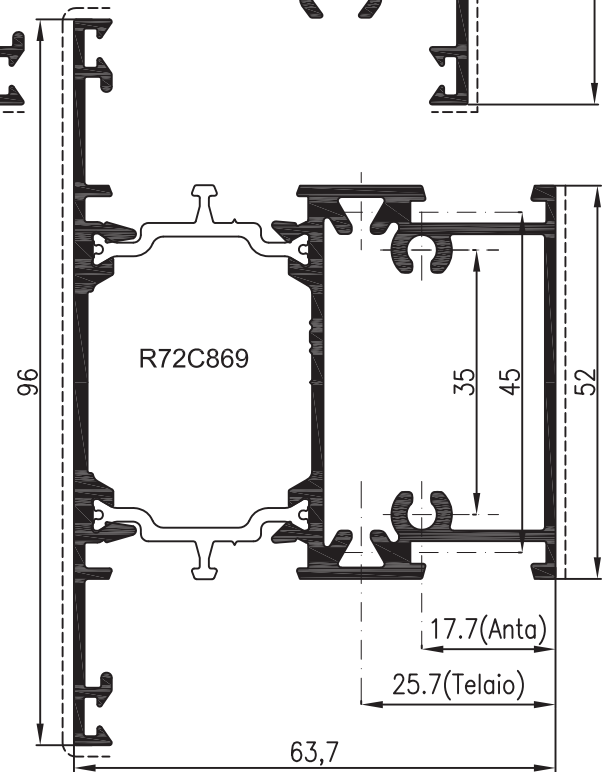
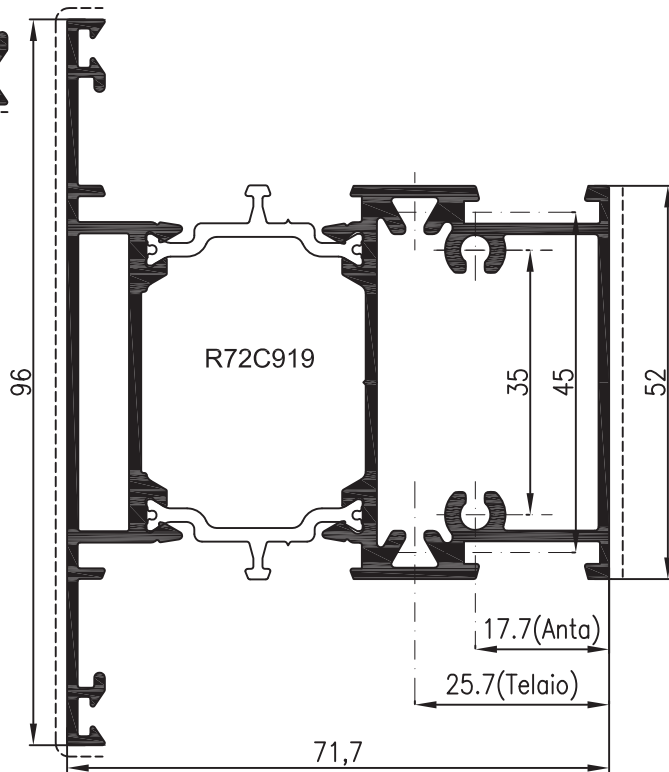
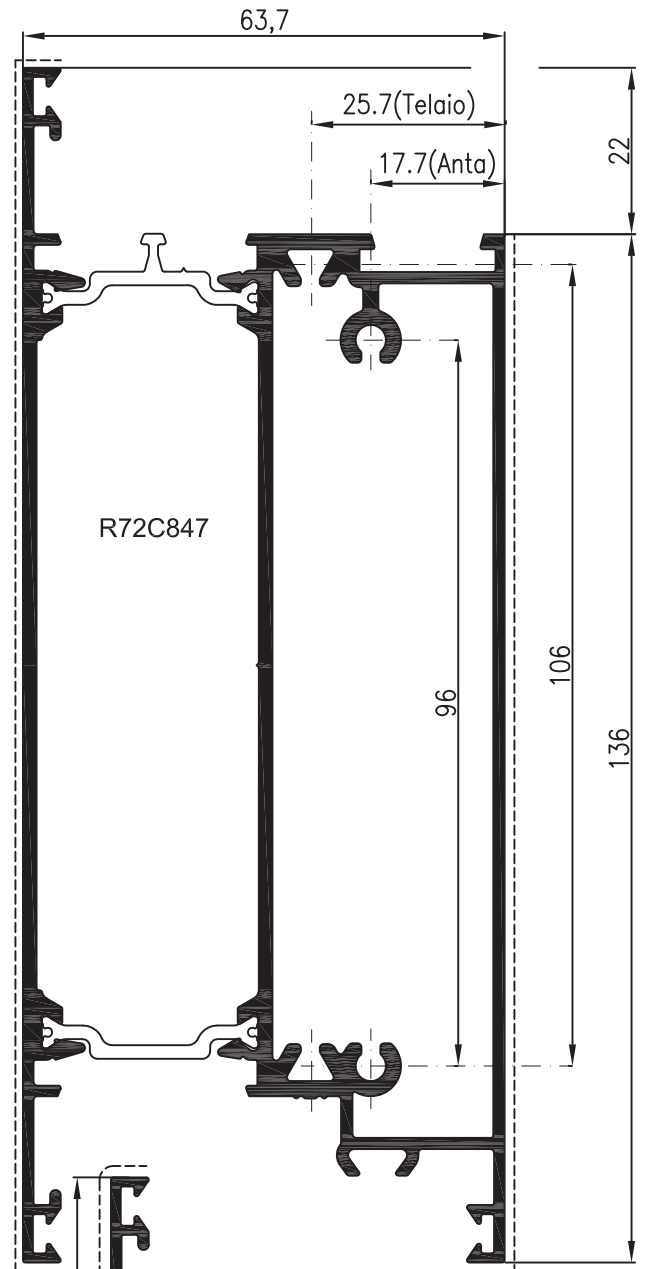
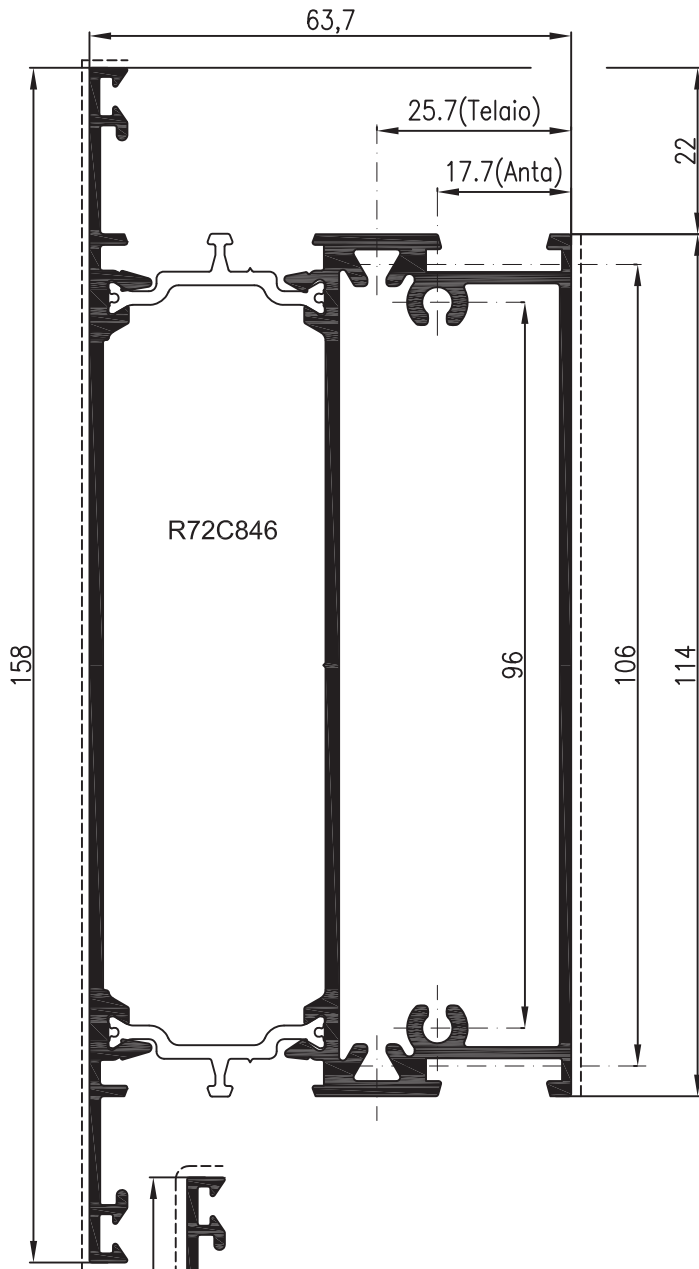


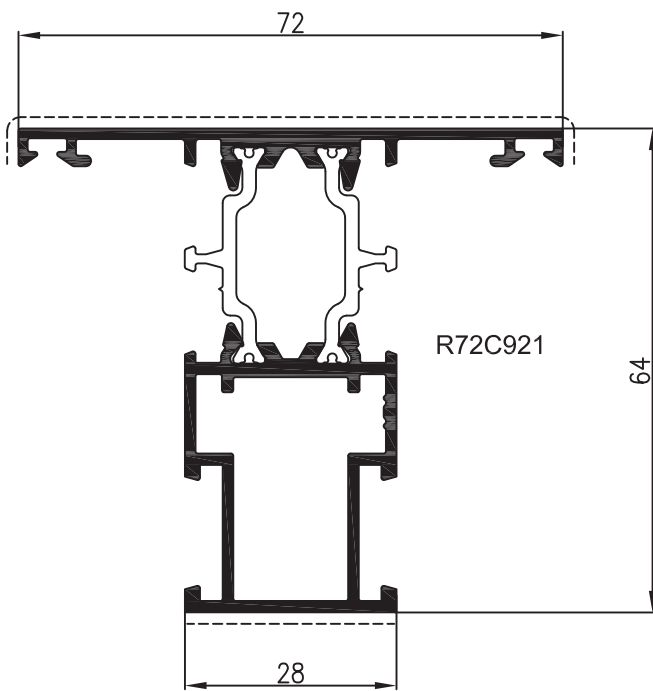
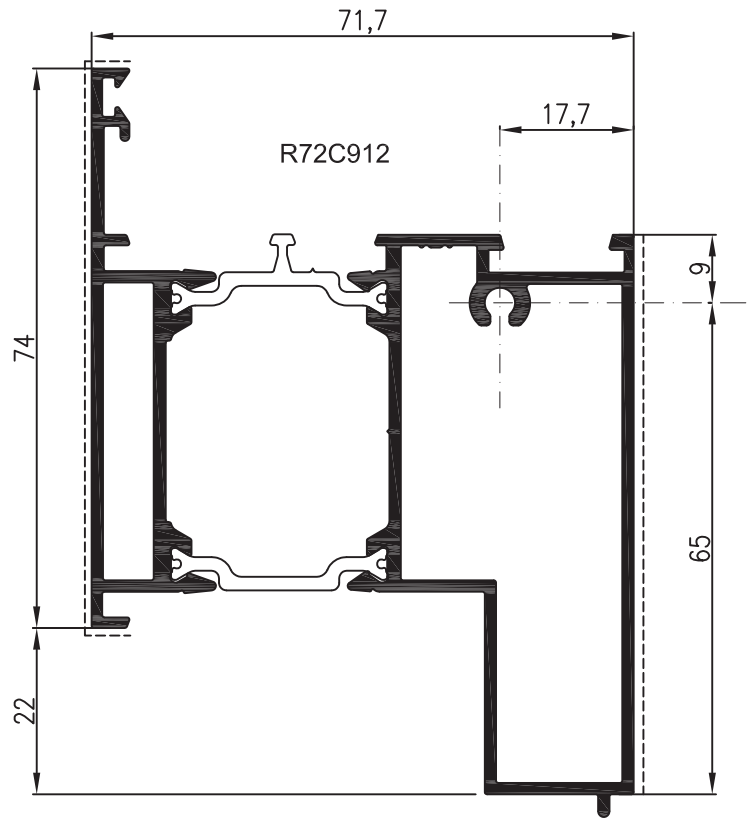
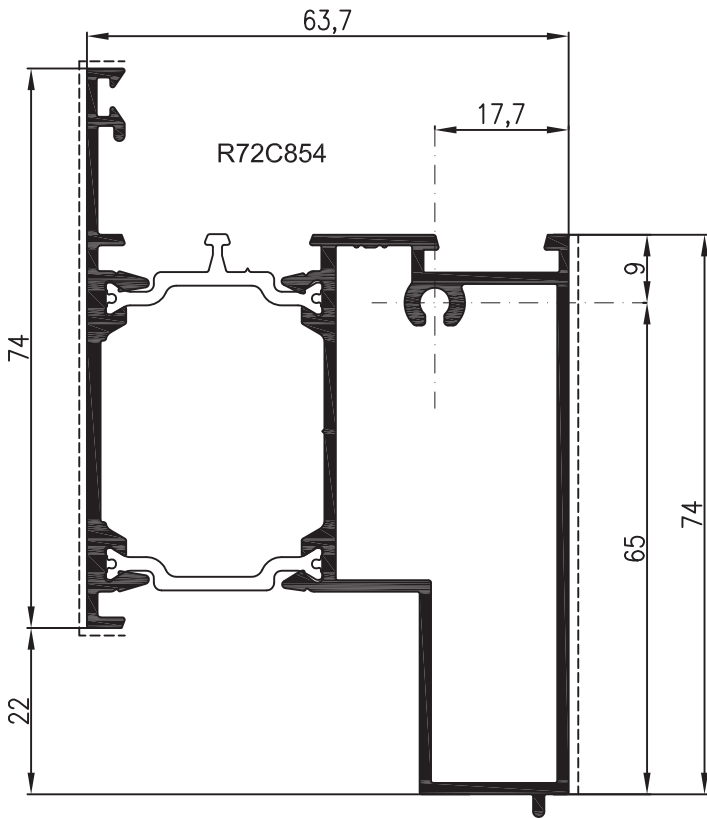




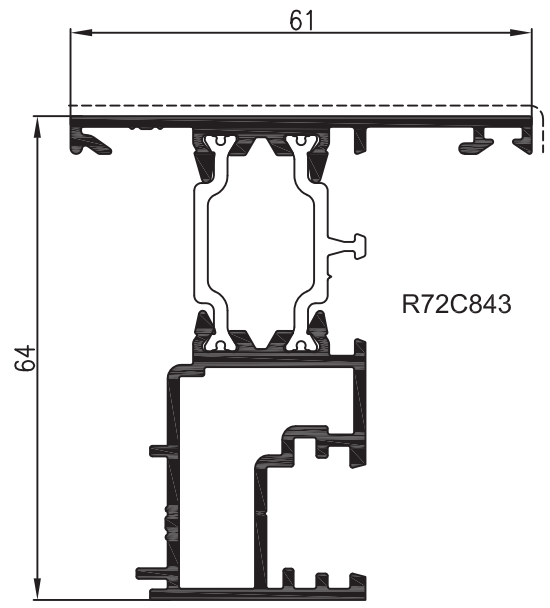


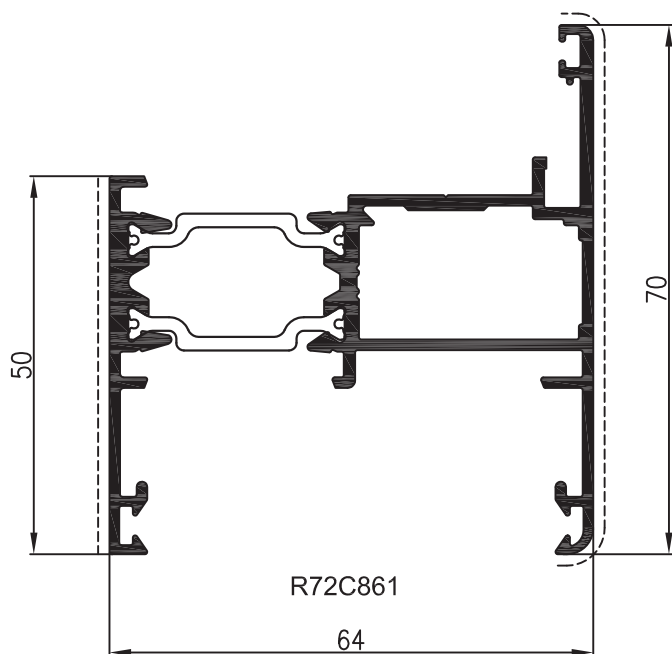
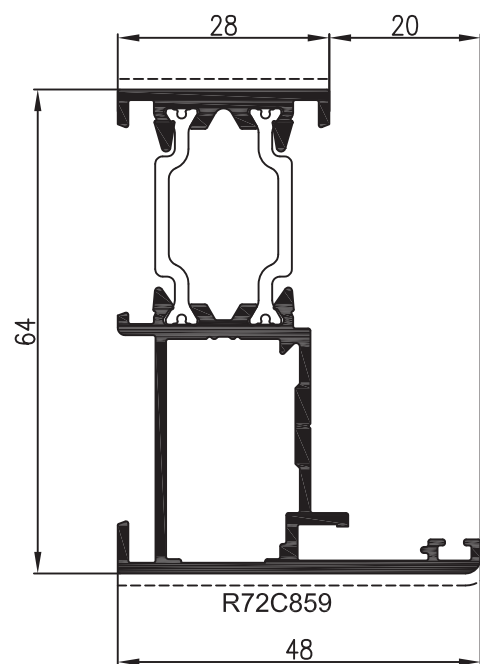
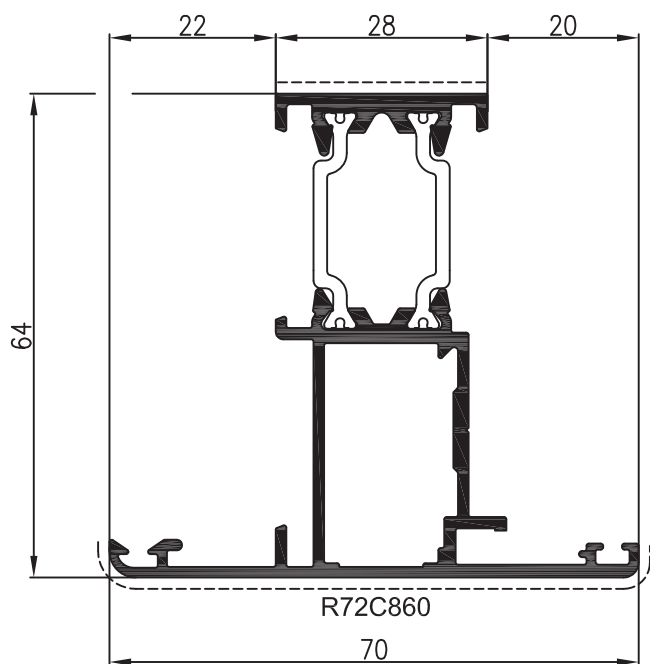




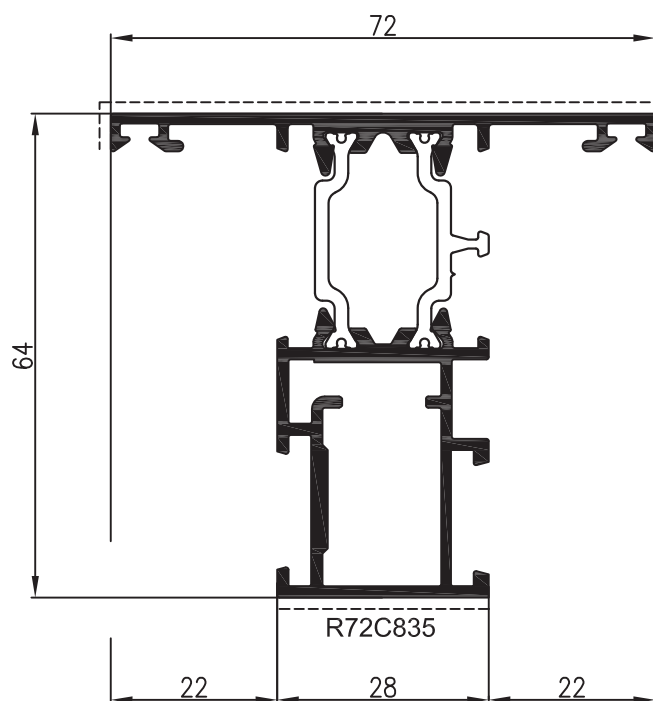


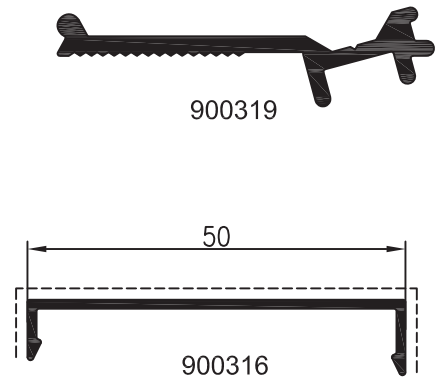
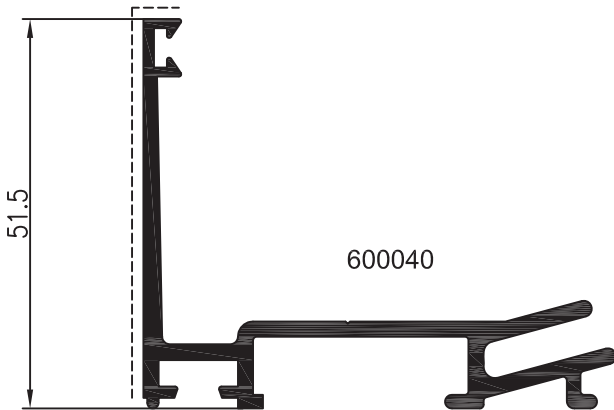
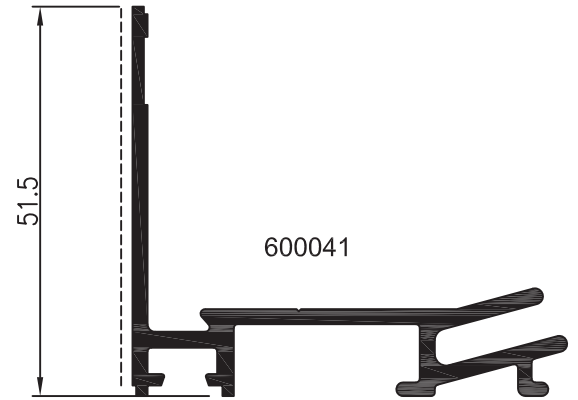
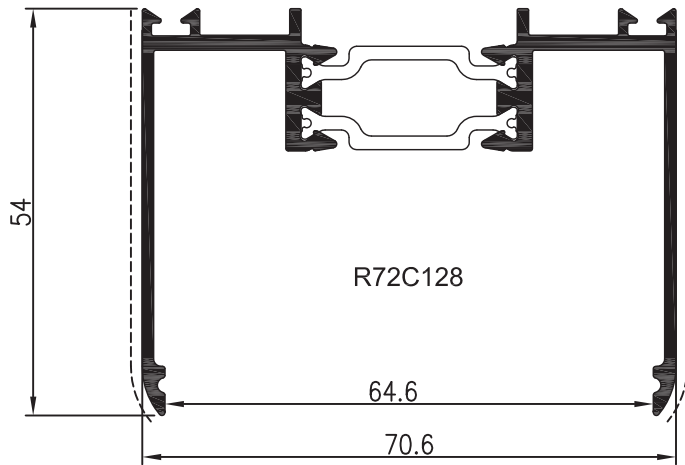
RIPORTO CENTRALE
CENTRAL FILLING



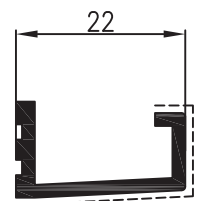
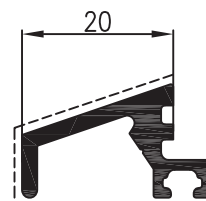
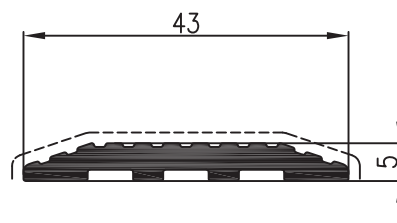
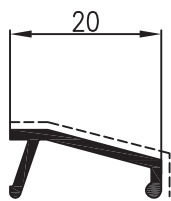
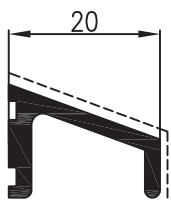


ANTA
WING

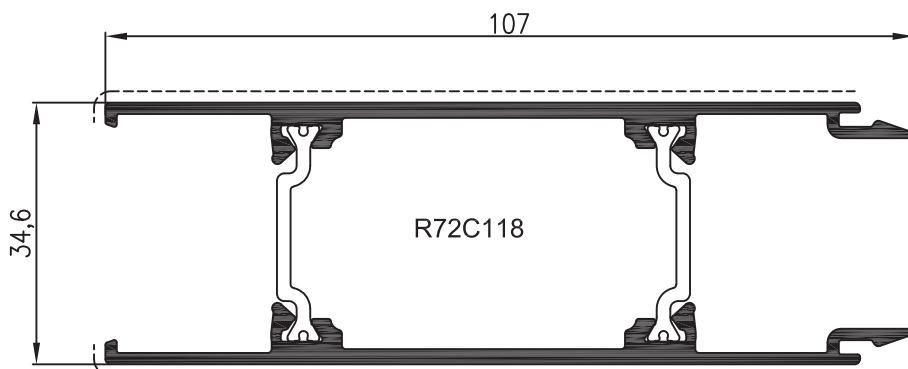




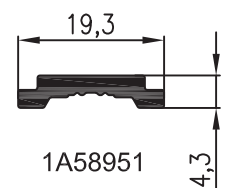
VARI
SUNDRIES

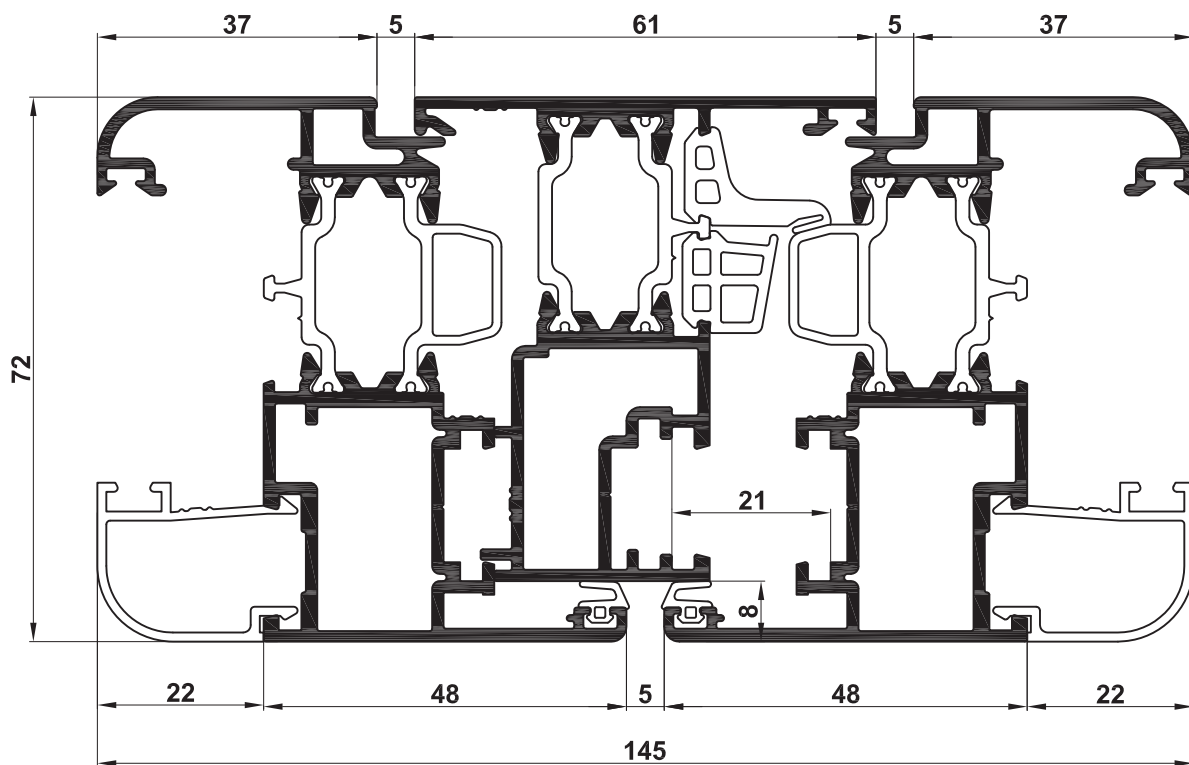
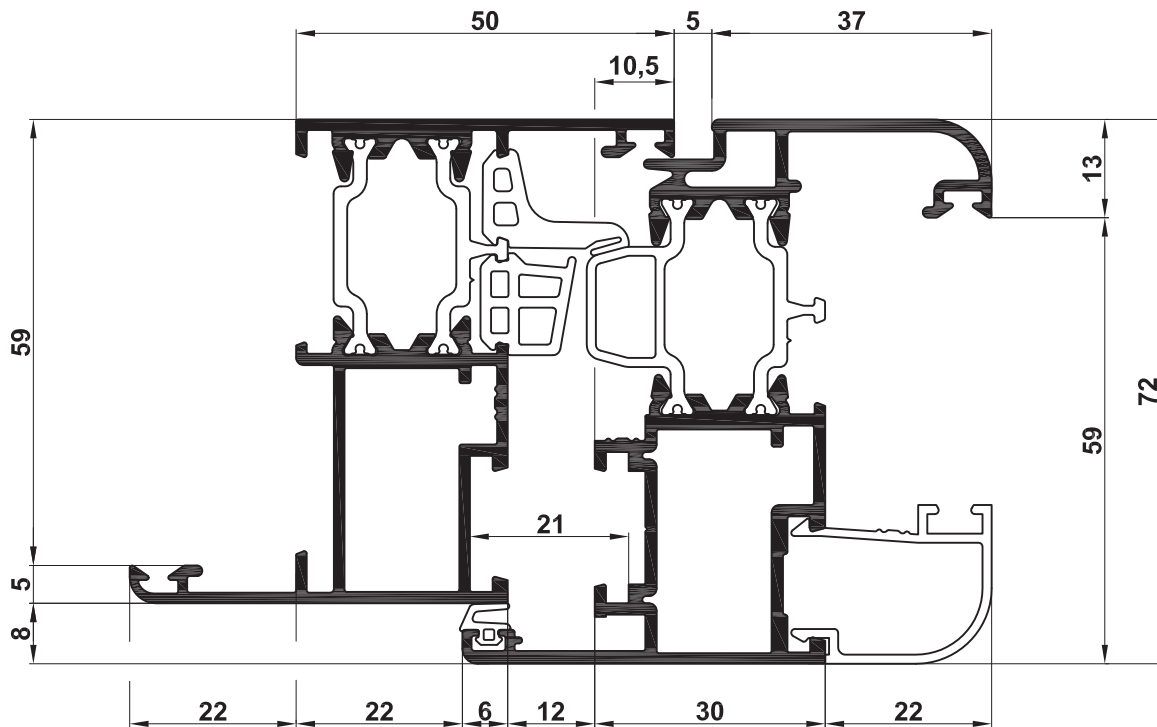


DOGA
STAVE



ASTA
BAR





Dimensione Minima Larghezza Anta 700mm

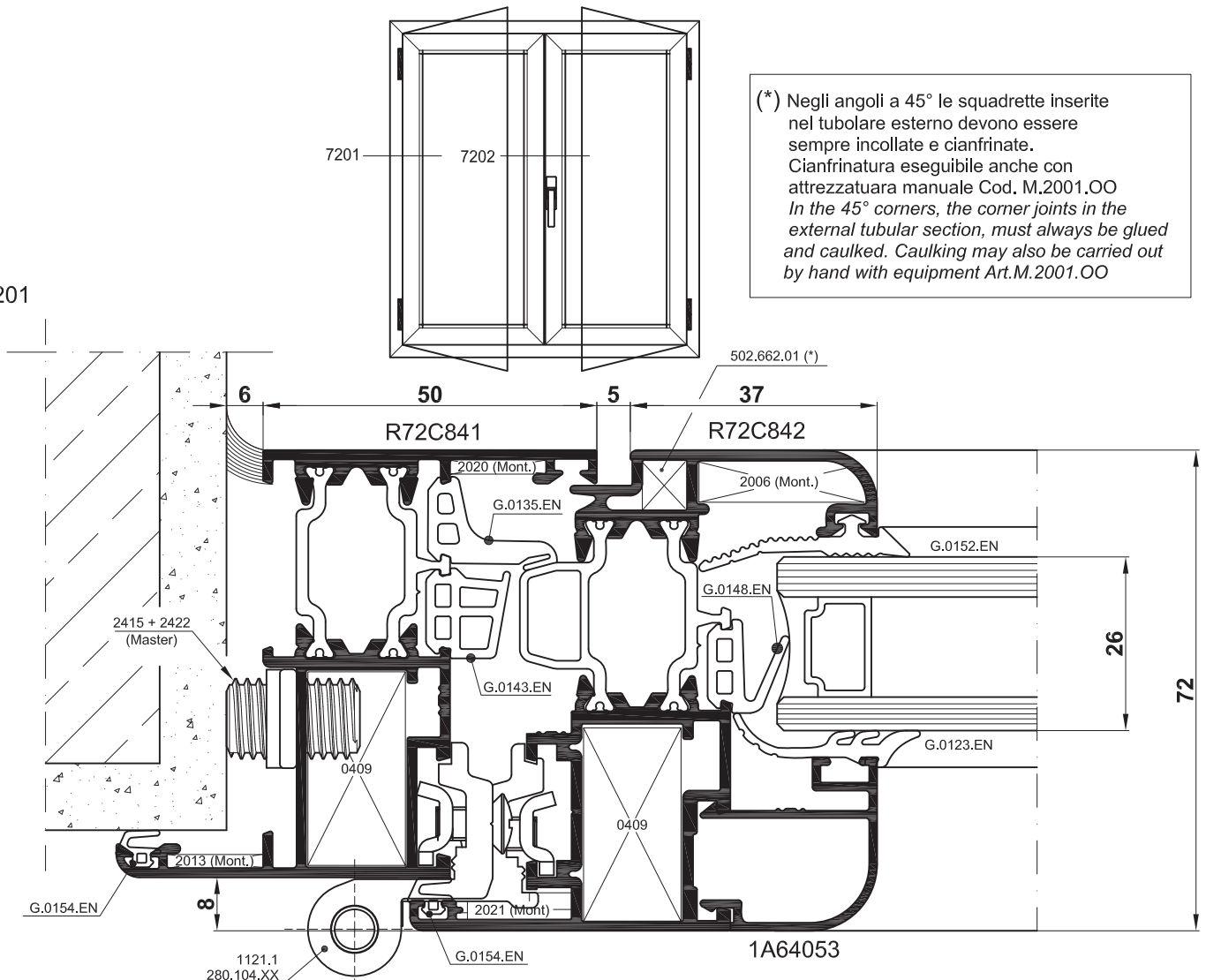
Minimum wing width 700mm

N.B.:
 - Le dimensioni indicate sono state ottenute considerando le quote teoriche.
 - The dimensions indicated, are obtained considering theoretical values.

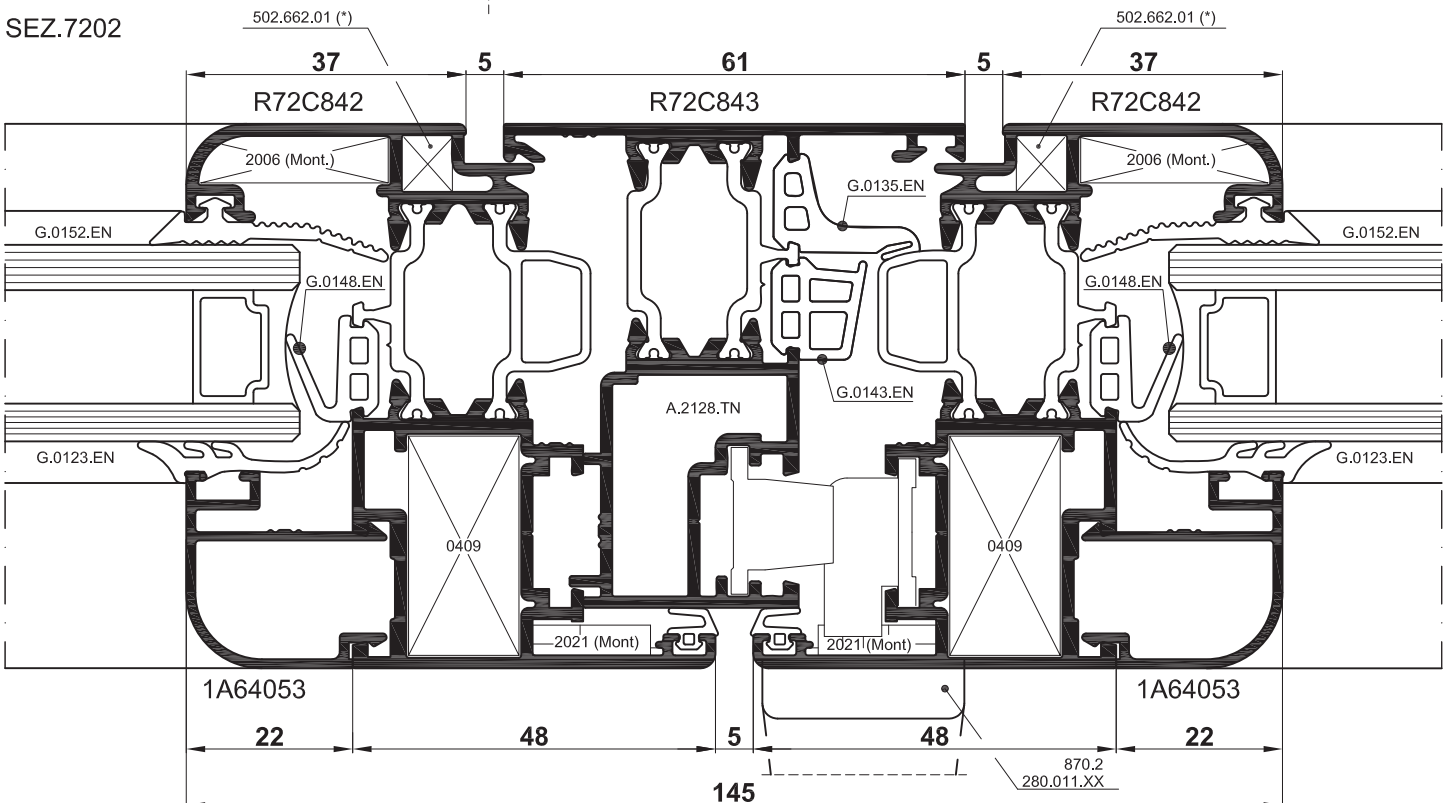
- Sezioni tipiche finestra, porta a battente e anta ribalta.
Typical sections of window, door and tilt and turn.
 - Per distinte di taglio e inserimento accessori, tenere presente questo schema
Take this diagram into consideration for cut and accessories

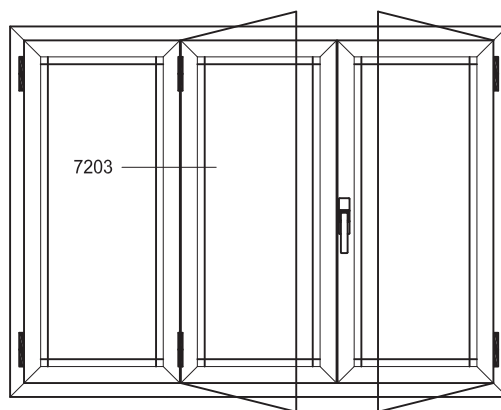
The sections, accessories and weatherstrips in this catalogue belong to Sapa as sole patentee.

SEZ.7201



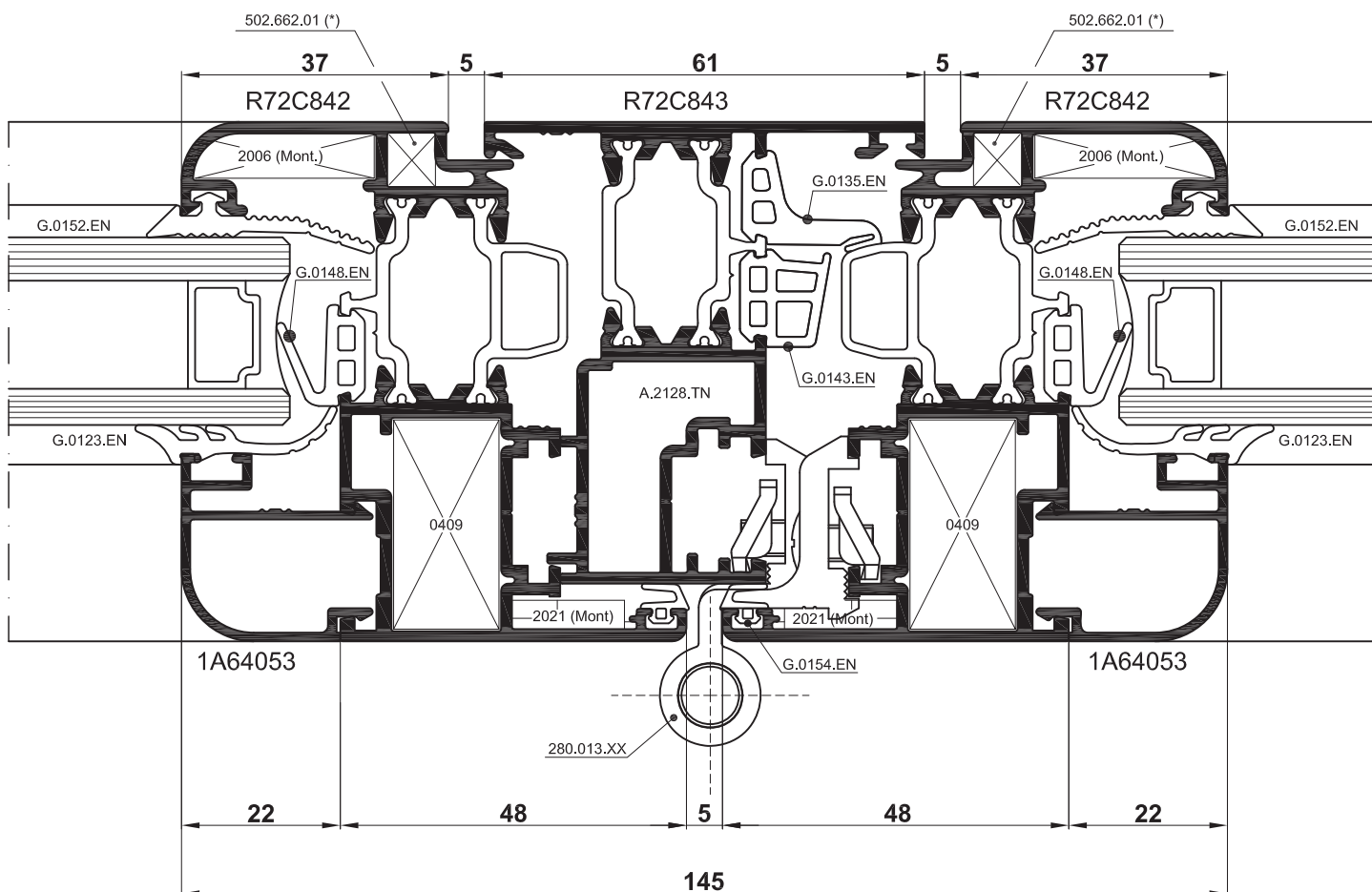
SEZ.7202

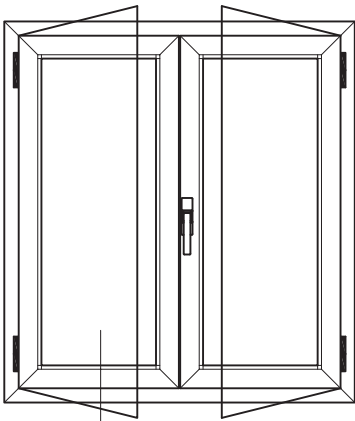




(*) Negli angoli a 45° le squadrette inserite nel tubolare esterno devono essere sempre incollate e cianfrinate. Cianfrinatura eseguibile anche con attrezzatura manuale Cod. M.2001.OO
In the 45° corners, the corner joints in the external tubular section, must always be glued and caulked. Caulking may also be carried out by hand with equipment Art.M.2001.OO

SEZ.7203

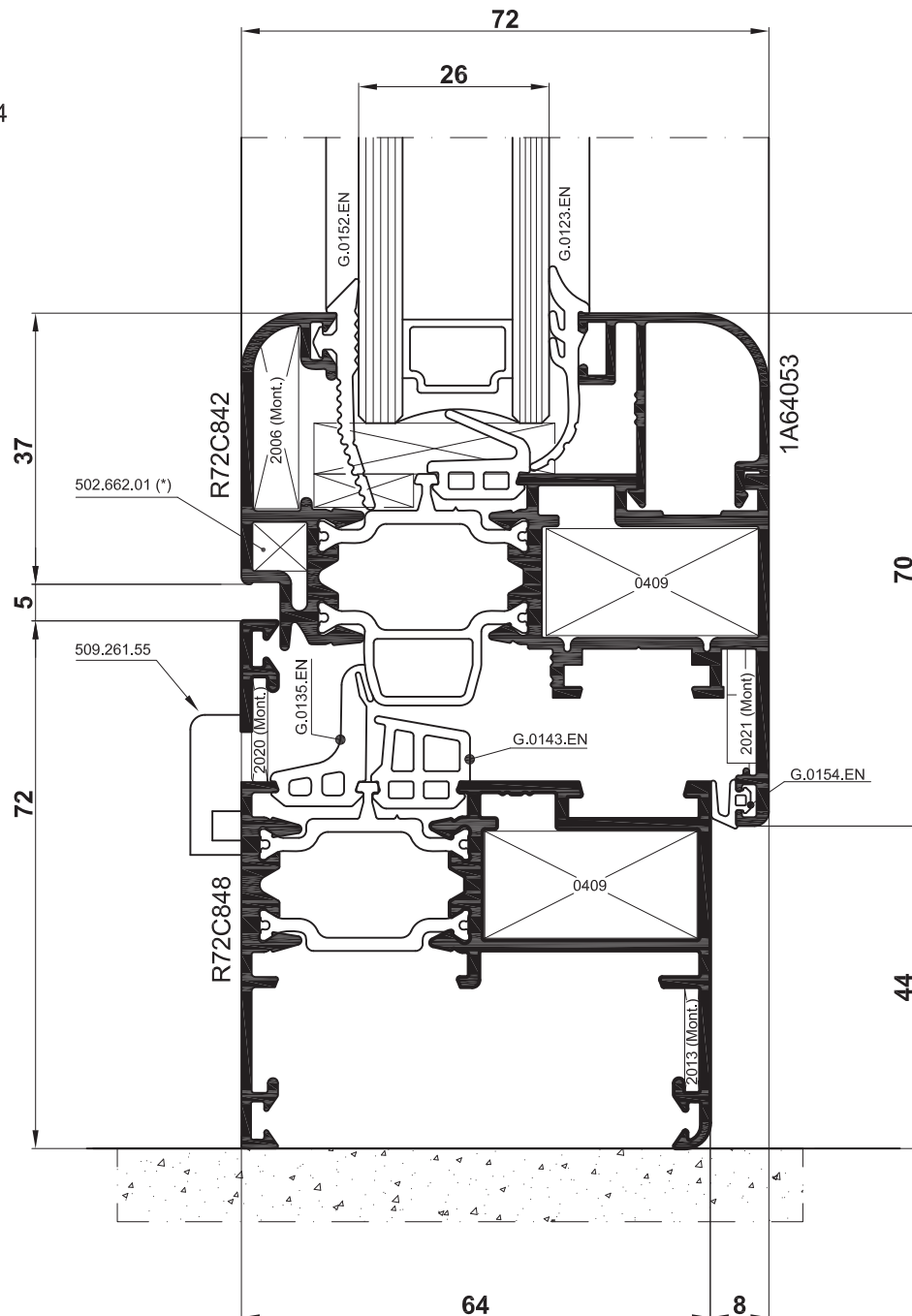


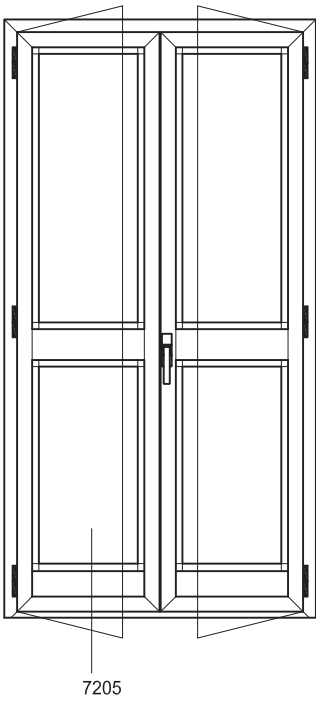


7204

(*) Negli angoli a 45° le squadrette inserite nel tubolare esterno devono essere sempre incollate e cianfrinate.
Cianfrinatura eseguibile anche con attrezzatura manuale Cod. M.2001.OO
In the 45° corners, the corner joints in the external tubular section, must always be glued and caulked. Caulking may also be carried out by hand with equipment Art.M.2001.OO

SEZ.7204

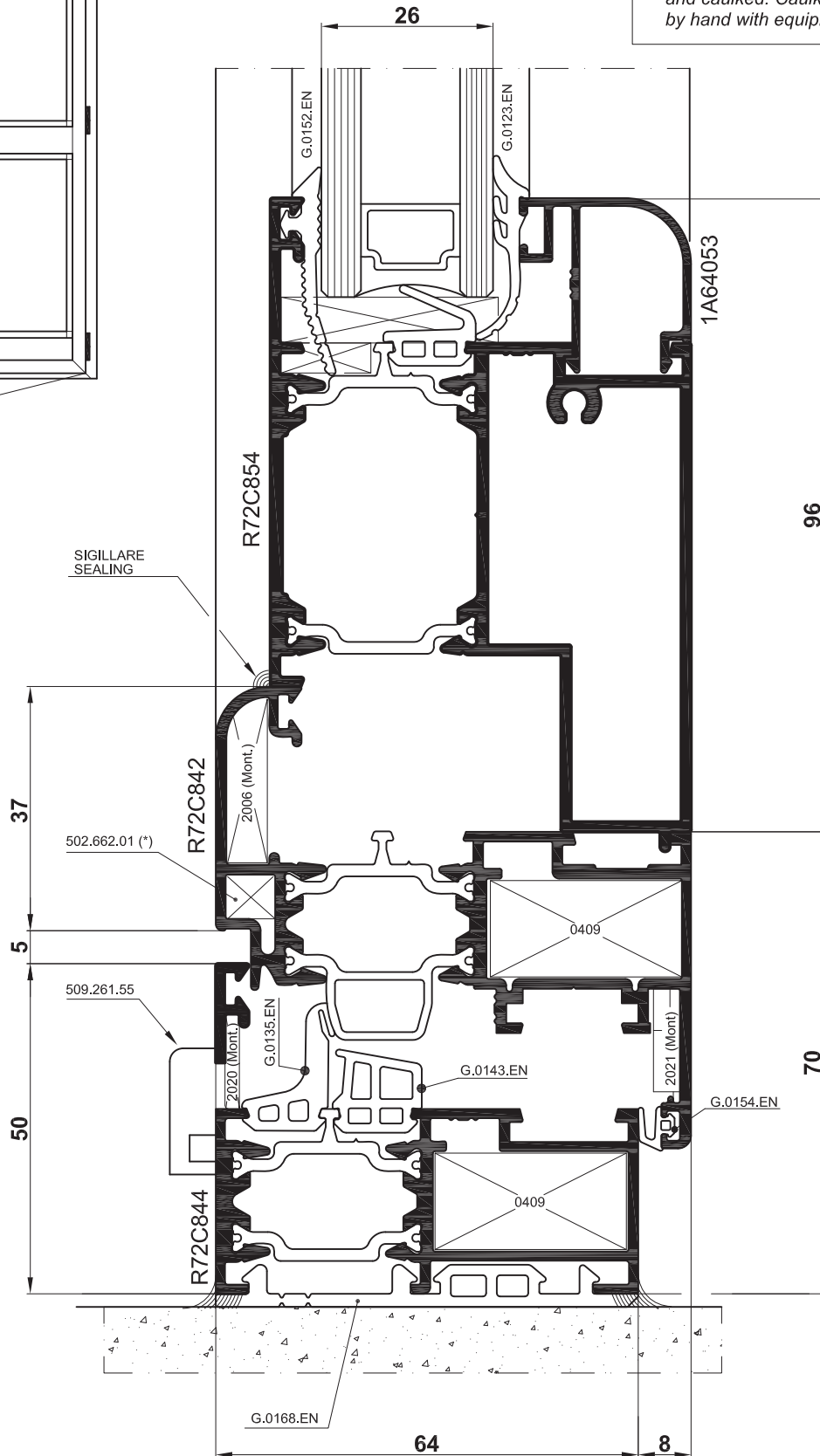




7205

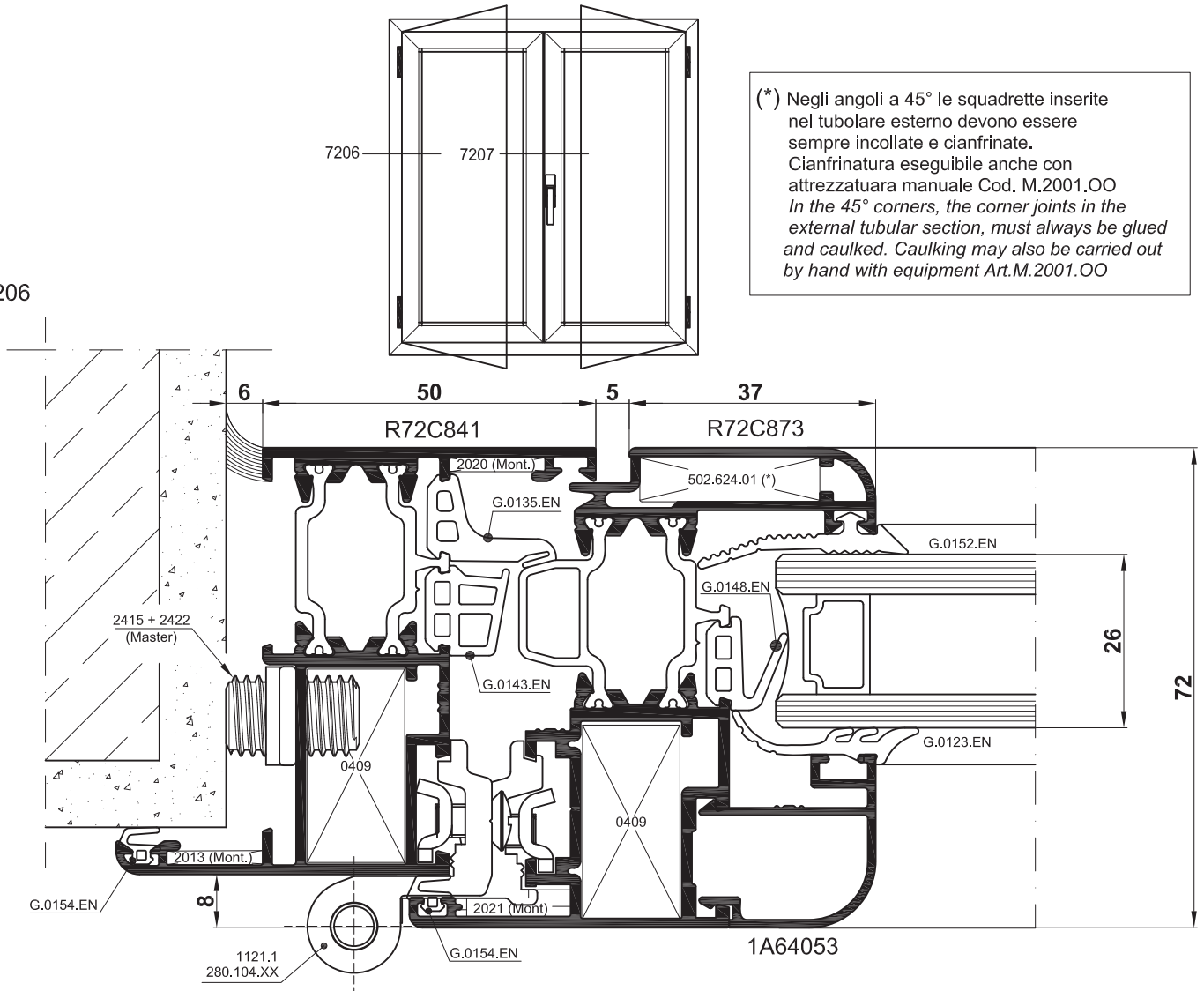
SEZ.7205

(*) Negli angoli a 45° le squadrette inserite nel tubolare esterno devono essere sempre incollate e cianfrinate.
Cianfrinatura eseguibile anche con attrezzatura manuale Cod. M.2001.OO
In the 45° corners, the corner joints in the external tubular section, must always be glued and caulked. Caulking may also be carried out by hand with equipment Art.M.2001.OO

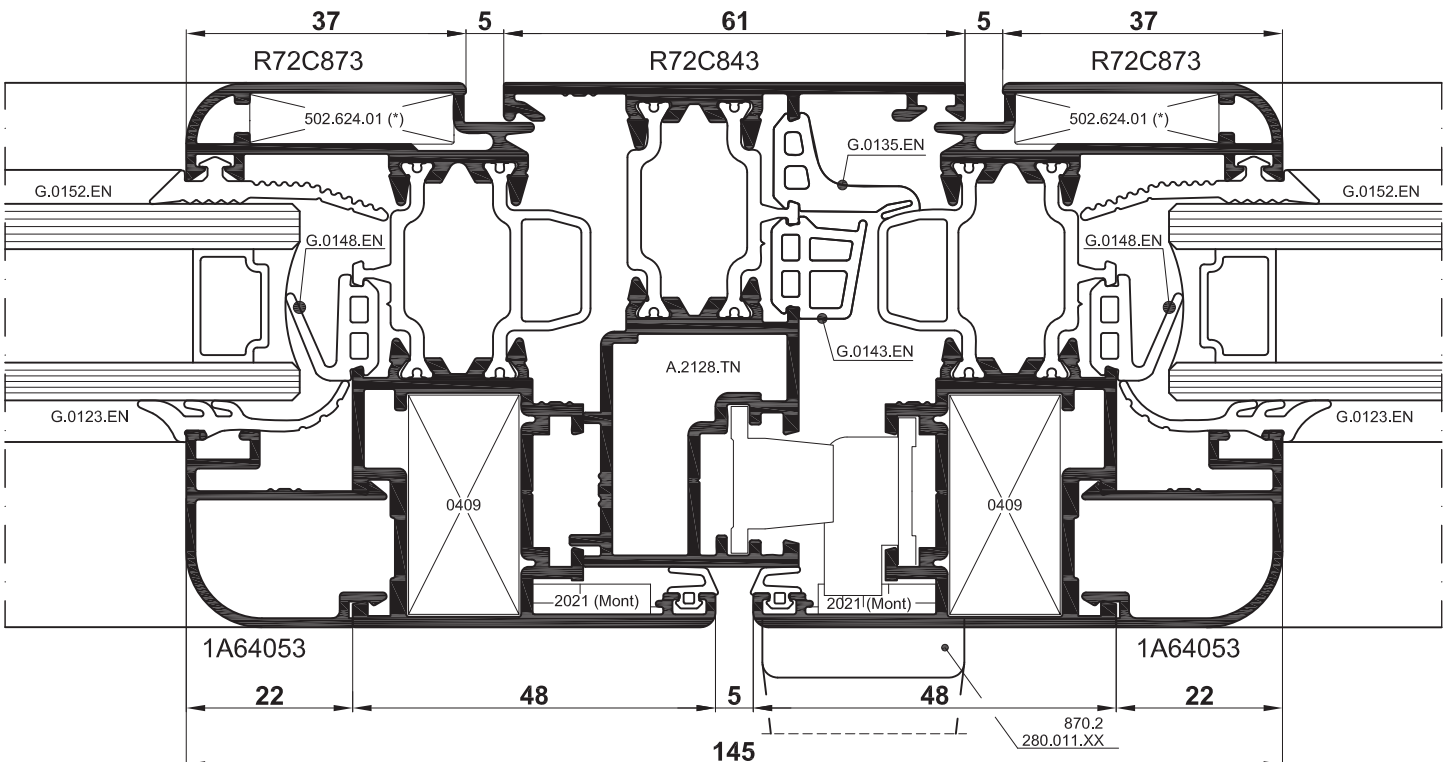


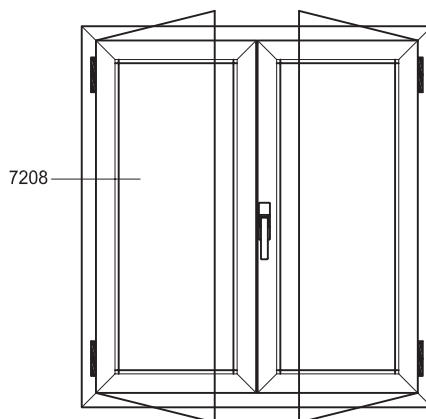
SEZIONI - FINESTRA A DUE ANTE CON PROF. R72C873
SECTIONS - TWO WING WINDOW WITH R72C873

SEZ.7206



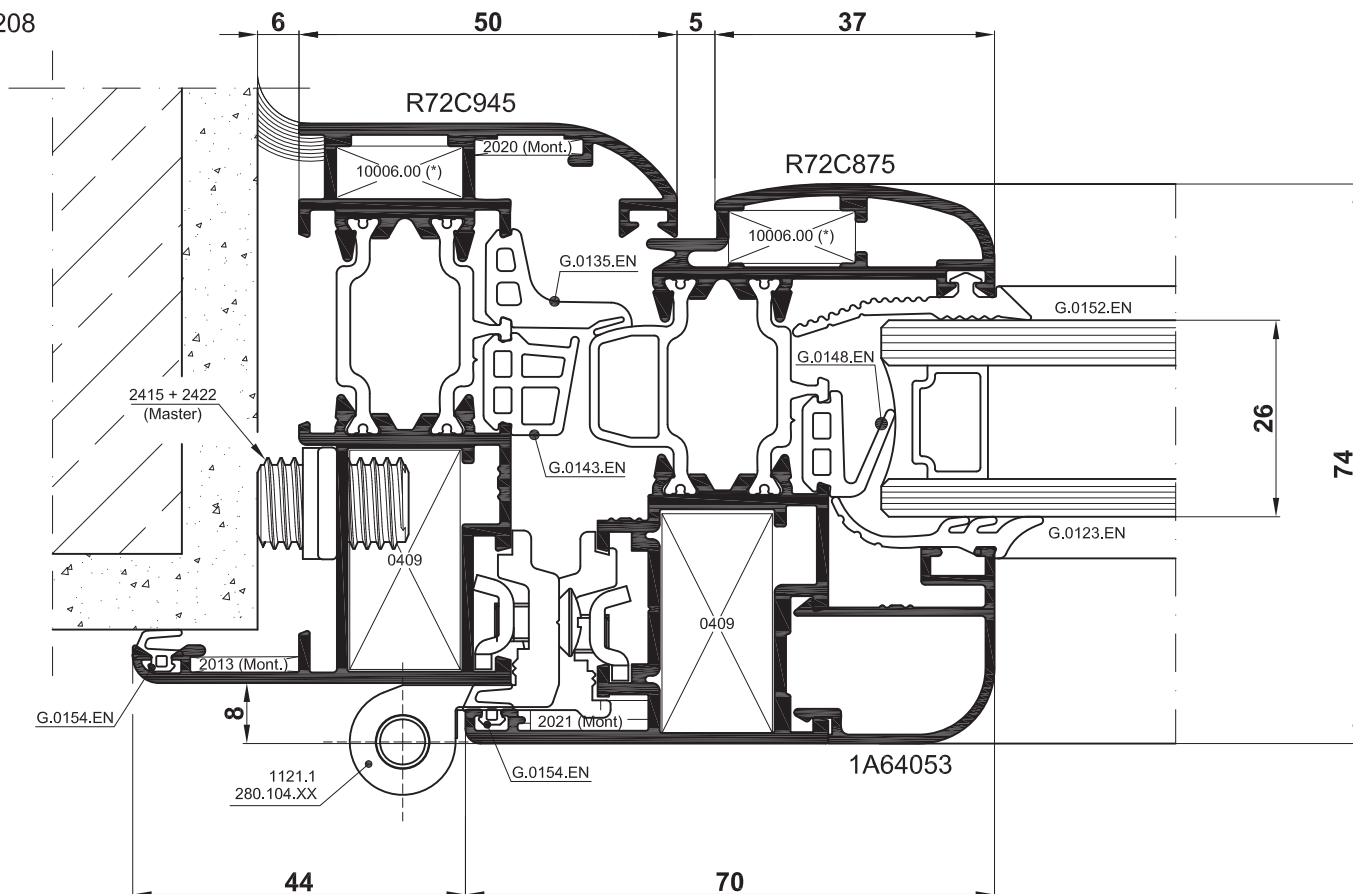
SEZ.7207

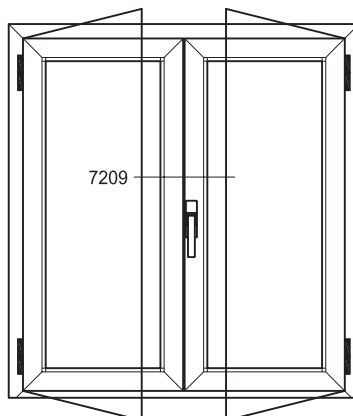




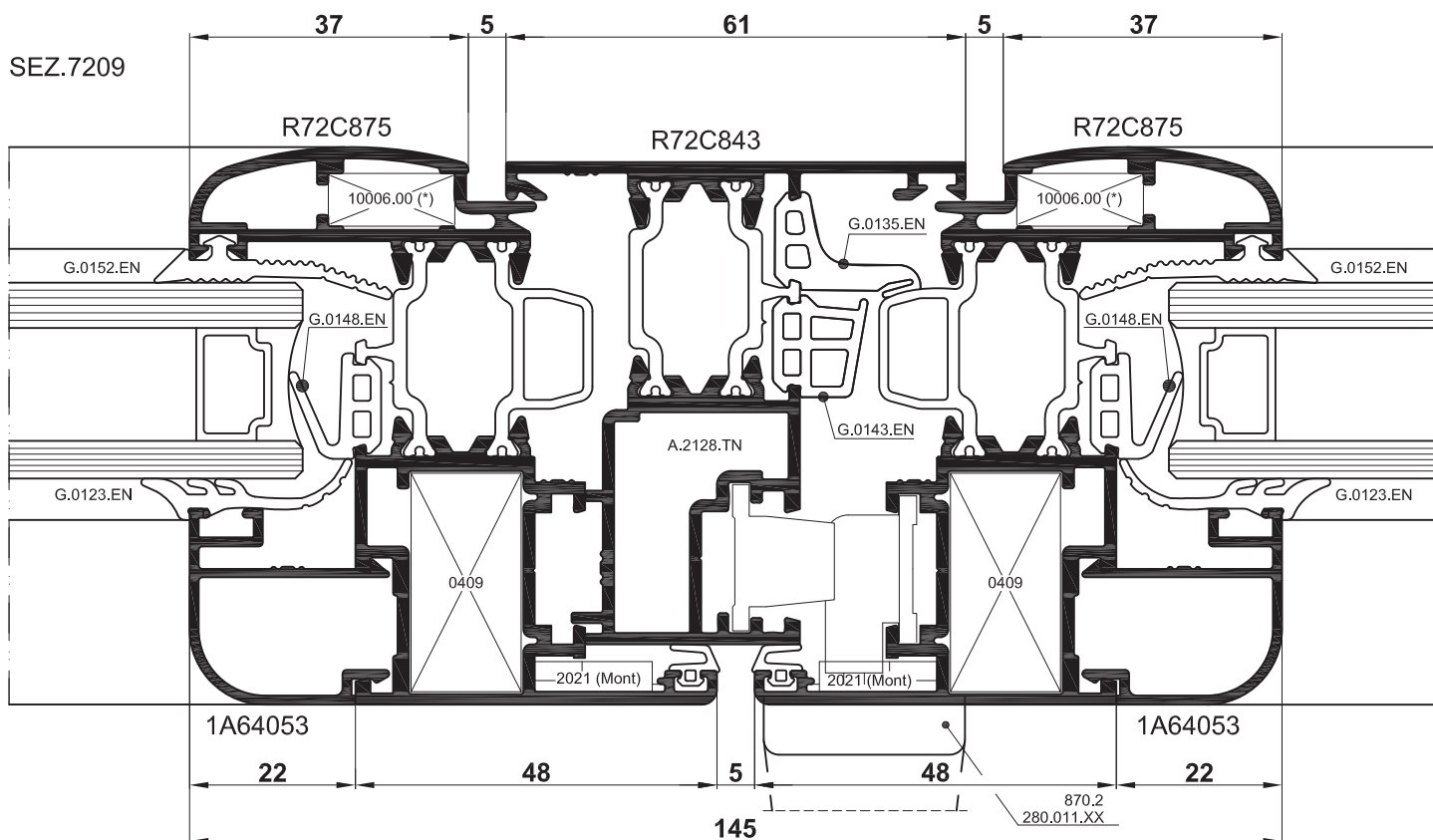
(*) Negli angoli a 45° le squadrette inserite nel tubolare esterno devono essere sempre incollate e cianfrinate. Cianfrinatura eseguibile anche con attrezzatura manuale Cod. M.2001.OO
In the 45° corners, the corner joints in the external tubular section, must always be glued and caulked. Caulking may also be carried out by hand with equipment Art.M.2001.OO

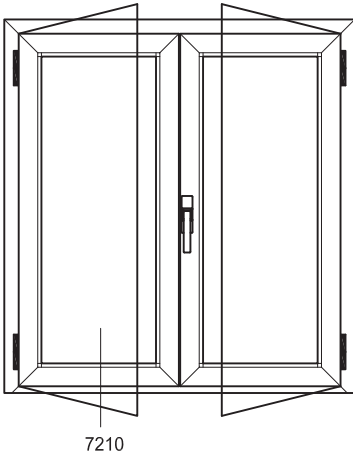
SEZ.7208





(*) Negli angoli a 45° le squadrette inserite nel tubolare esterno devono essere sempre incollate e cianfrinate. Cianfrinatura eseguibile anche con attrezzatura manuale Cod. M.2001.00
 In the 45° corners, the corner joints in the external tubular section, must always be glued and caulked. Caulking may also be carried out by hand with equipment Art.M.2001.00

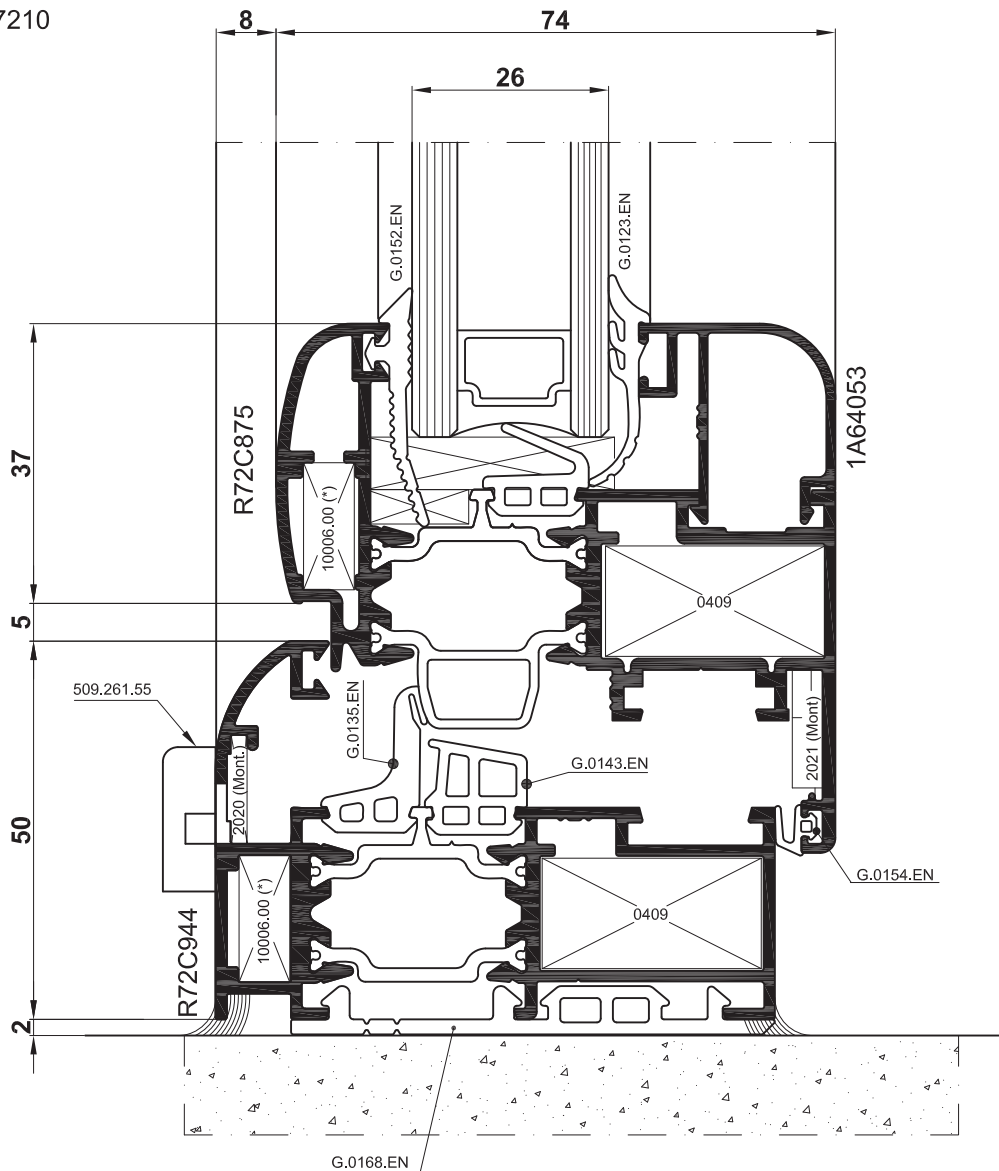


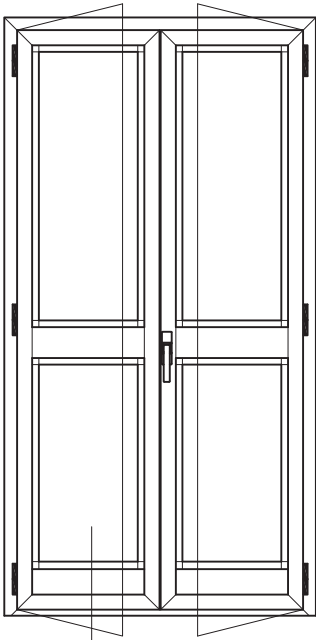


7210

(*) Negli angoli a 45° le squadrette inserite nel tubolare esterno devono essere sempre incollate e cianfrinate.
Cianfrinatura eseguibile anche con attrezzatura manuale Cod. M.2001.OO
In the 45° corners, the corner joints in the external tubular section, must always be glued and caulked. Caulking may also be carried out by hand with equipment Art.M.2001.OO

SEZ.7210

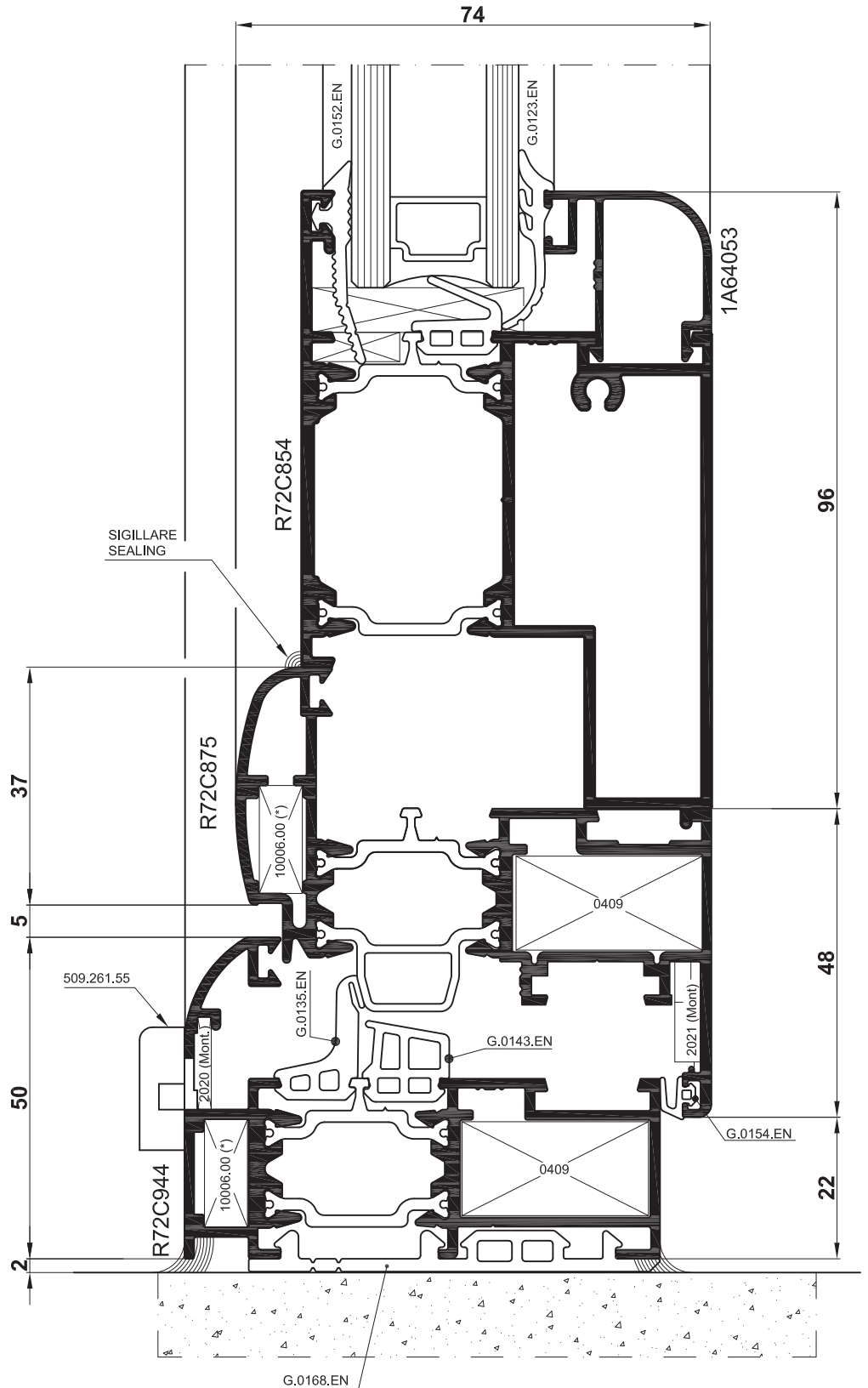


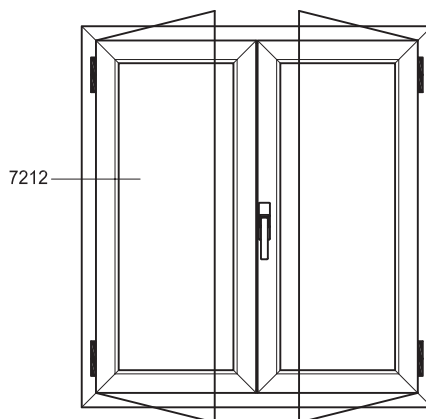


7211

SEZ.7211

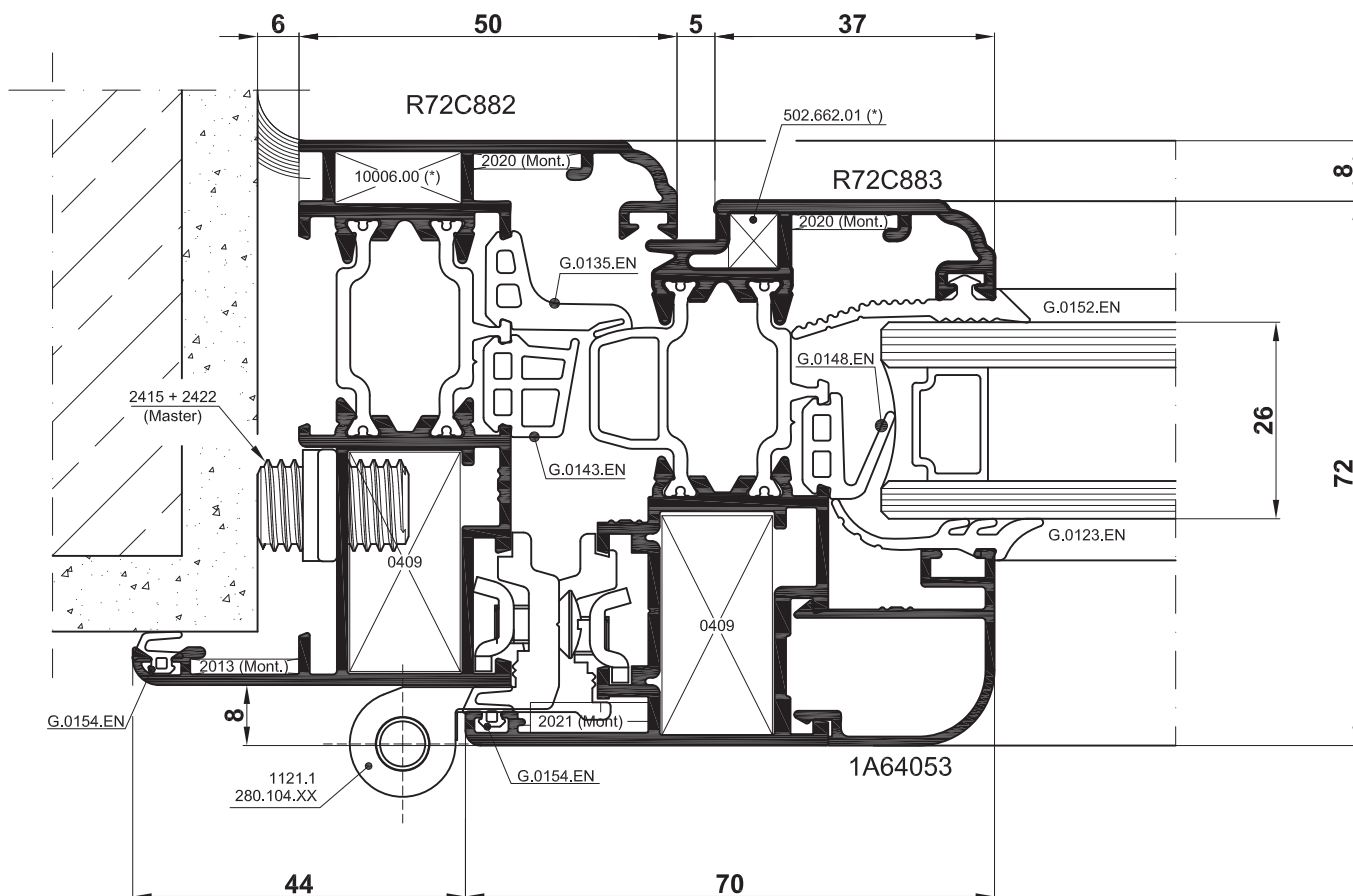
(*) Negli angoli a 45° le squadrette inserite nel tubolare esterno devono essere sempre incollate e cianfrinate.
Cianfrinatura eseguibile anche con attrezzatura manuale Cod. M.2001.00
In the 45° corners, the corner joints in the external tubular section, must always be glued and caulked. Caulking may also be carried out by hand with equipment Art.M.2001.00

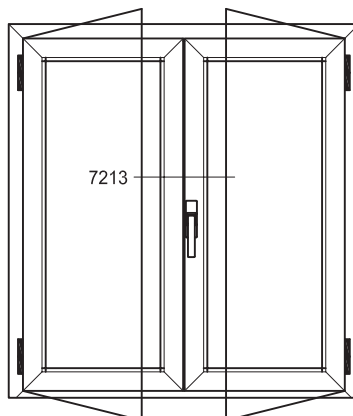




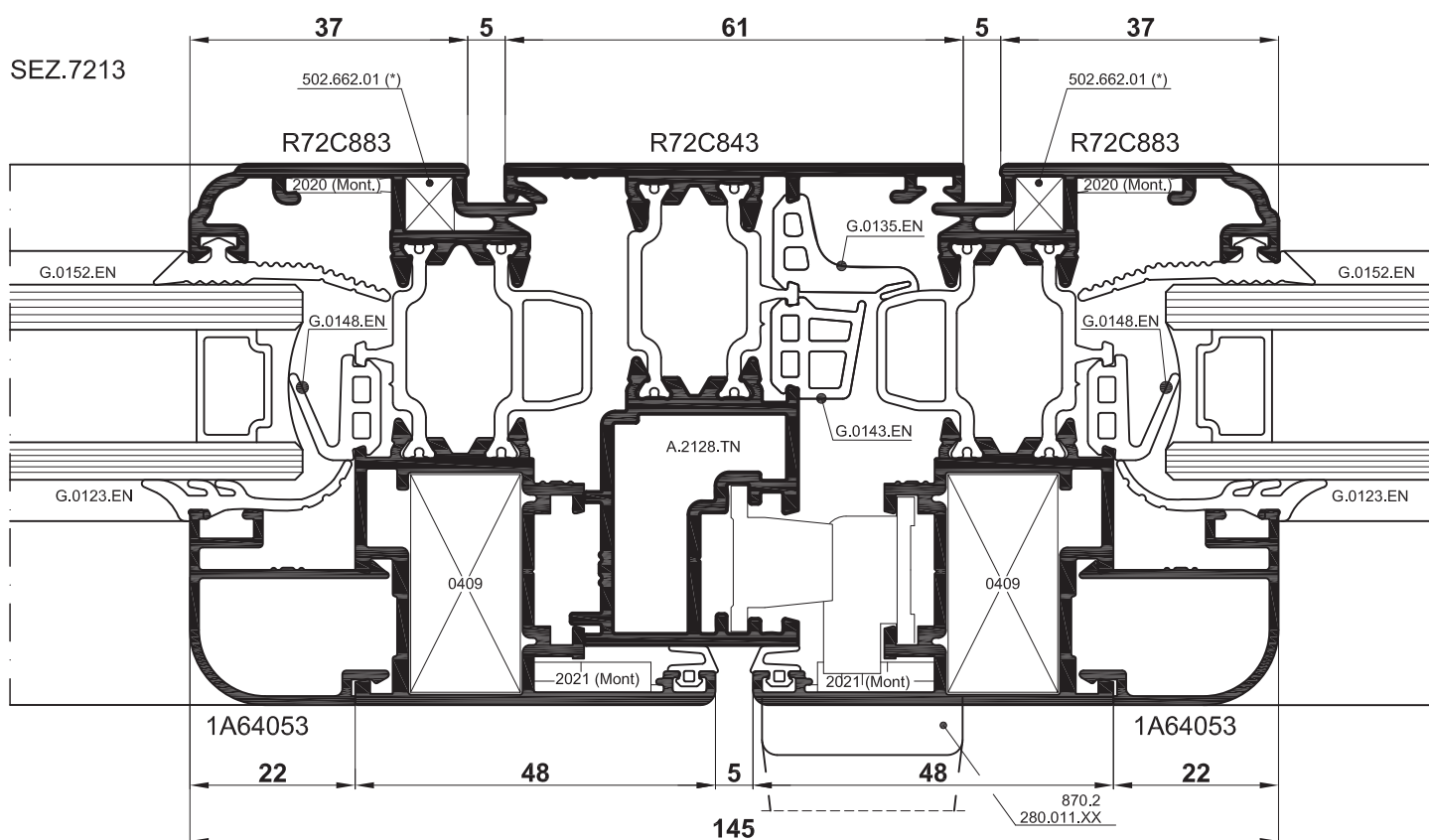
(*) Negli angoli a 45° le squadrette inserite nel tubolare esterno devono essere sempre incollate e cianfrinate.
 Cianfrinatura eseguibile anche con attrezzatura manuale Cod. M.2001.OO
In the 45° corners, the corner joints in the external tubular section, must always be glued and caulked. Caulking may also be carried out by hand with equipment Art.M.2001.OO

SEZ.7212

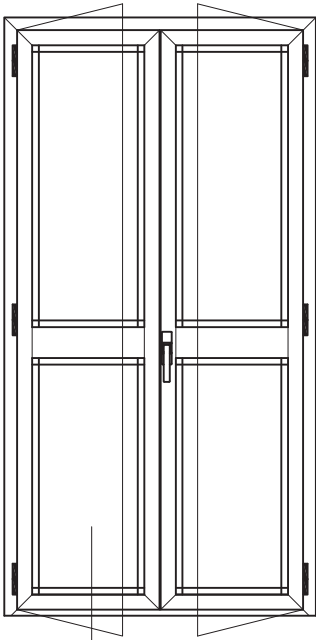




(*) Negli angoli a 45° le squadrette inserite nel tubolare esterno devono essere sempre incollate e cianfrinate. Cianfrinatura eseguibile anche con attrezzatura manuale Cod. M.2001.OO
 In the 45° corners, the corner joints in the external tubular section, must always be glued and caulked. Caulking may also be carried out by hand with equipment Art.M.2001.OO

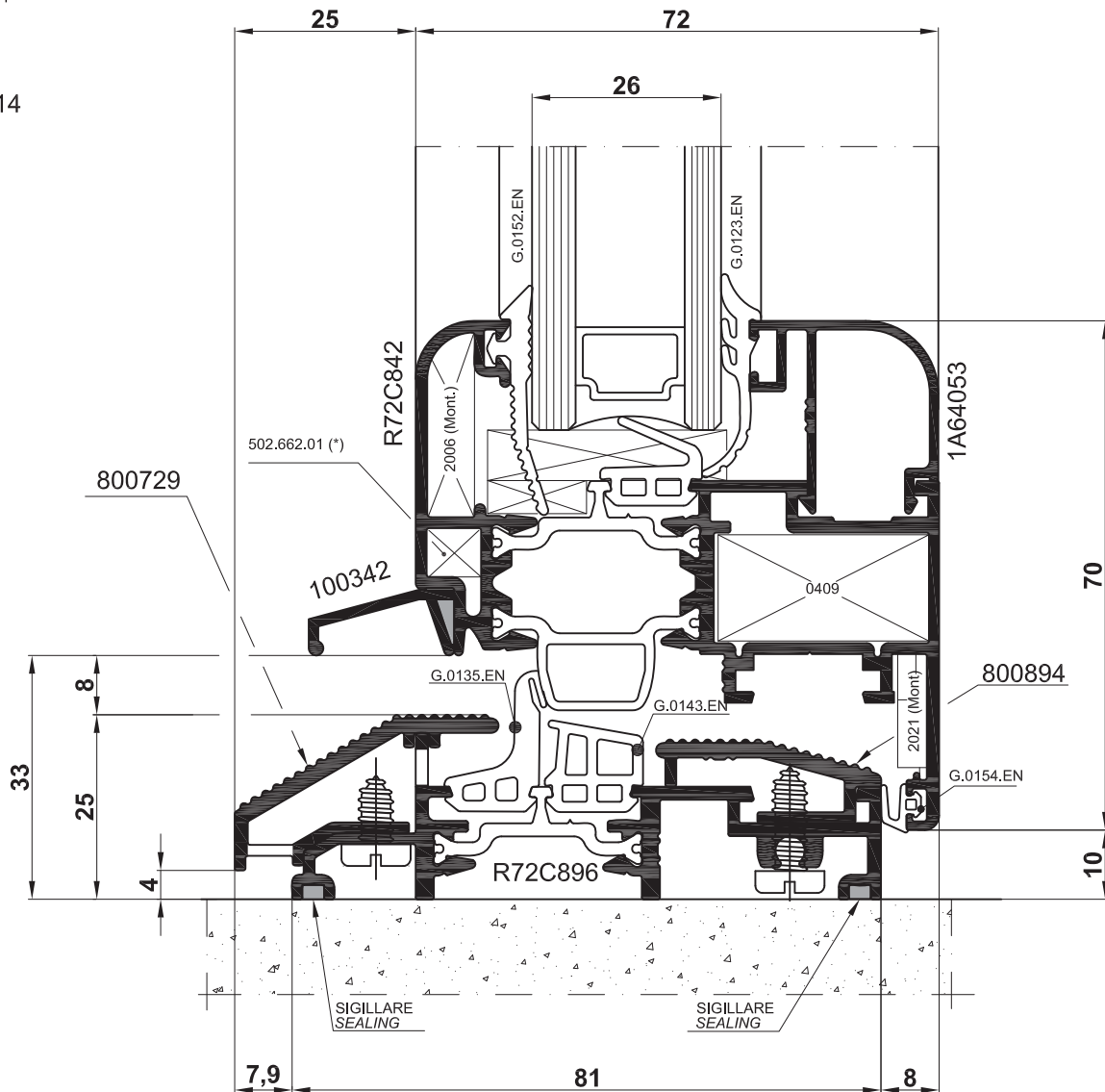


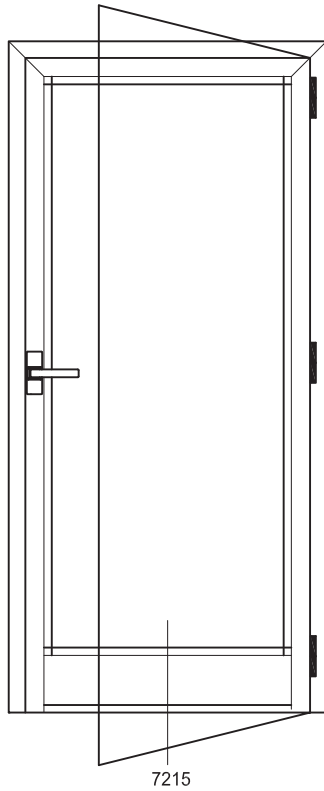
(*) Negli angoli a 45° le squadrette inserite nel tubolare esterno devono essere sempre incollate e cianfrinate.
Cianfrinatura eseguibile anche con attrezzatura manuale Cod. M.2001.OO
In the 45° corners, the corner joints in the external tubular section, must always be glued and caulked. Caulking may also be carried out by hand with equipment Art.M.2001.OO



7214

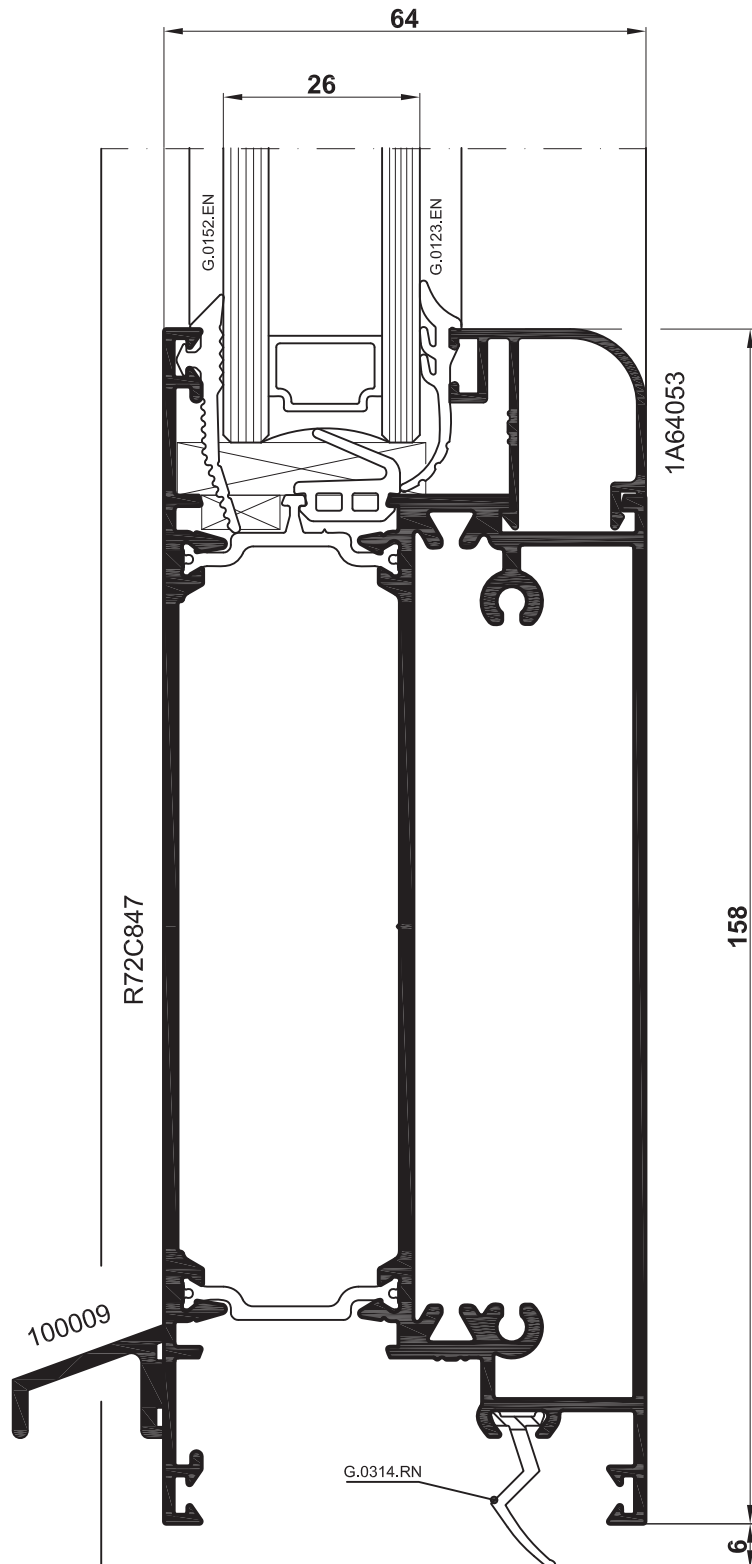
SEZ.7214

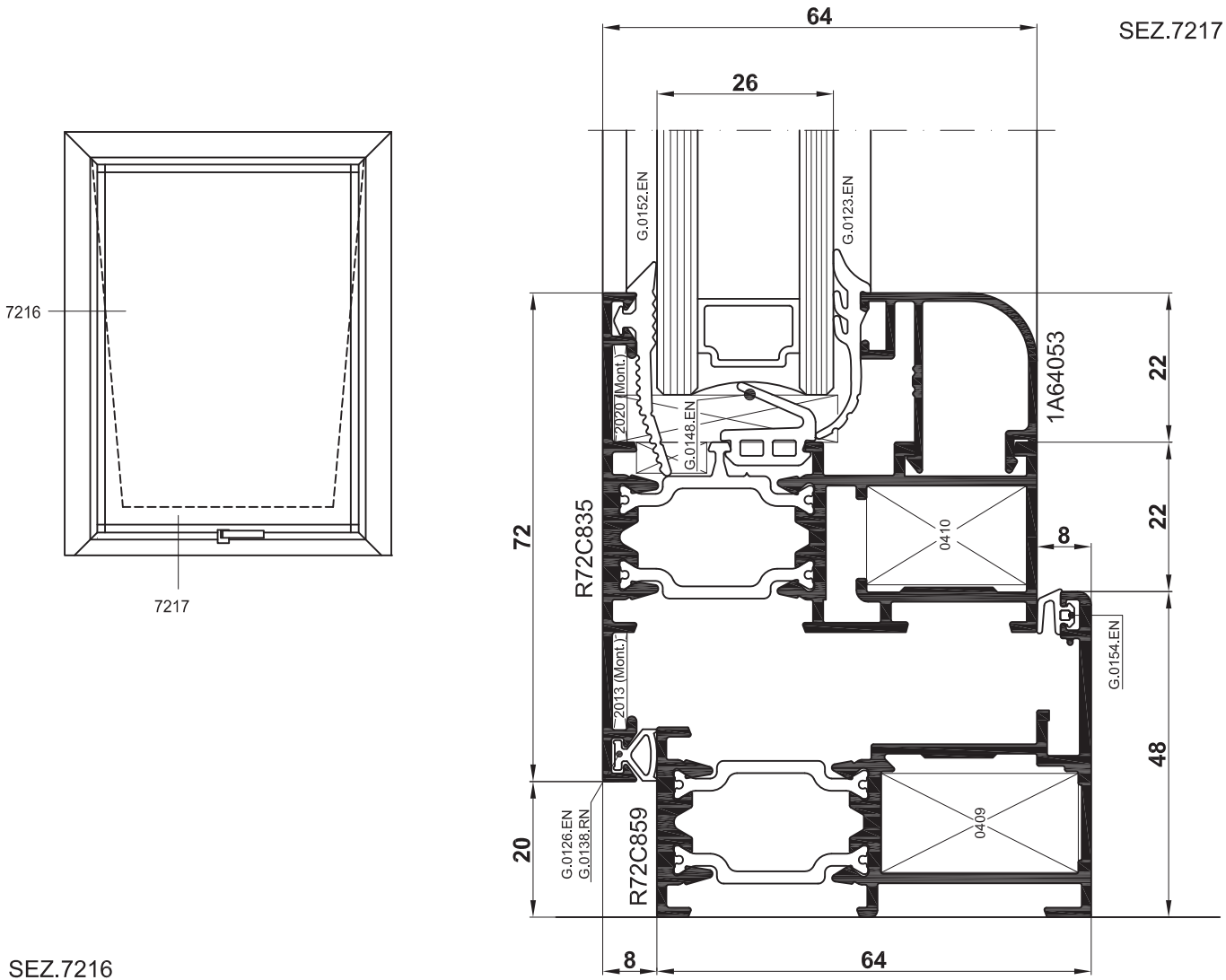




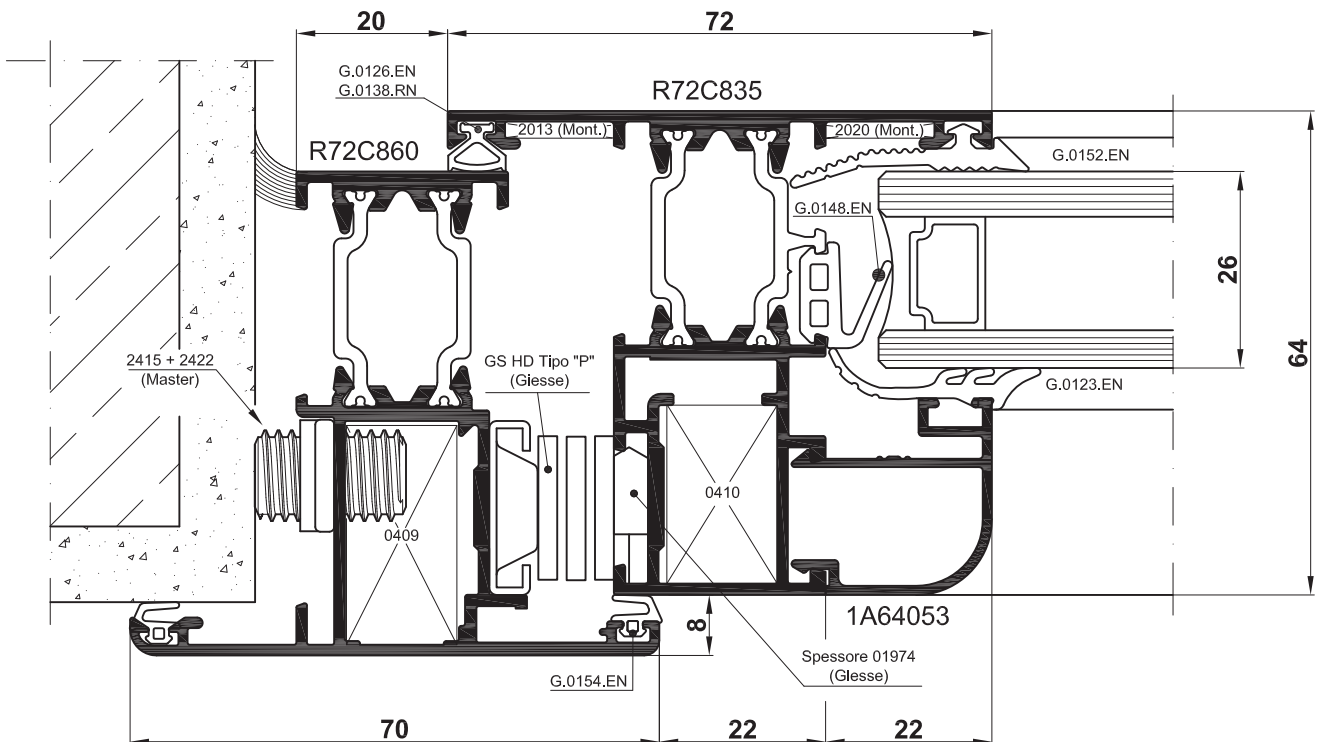
SEZ.7215

(*) Negli angoli a 45° le squadrette inserite nel tubolare esterno devono essere sempre incollate e cianfrinate.
Cianfrinatura eseguibile anche con attrezzatura manuale Cod. M.2001.OO
In the 45° corners, the corner joints in the external tubular section, must always be glued and caulked. Caulking may also be carried out by hand with equipment Art.M.2001.OO

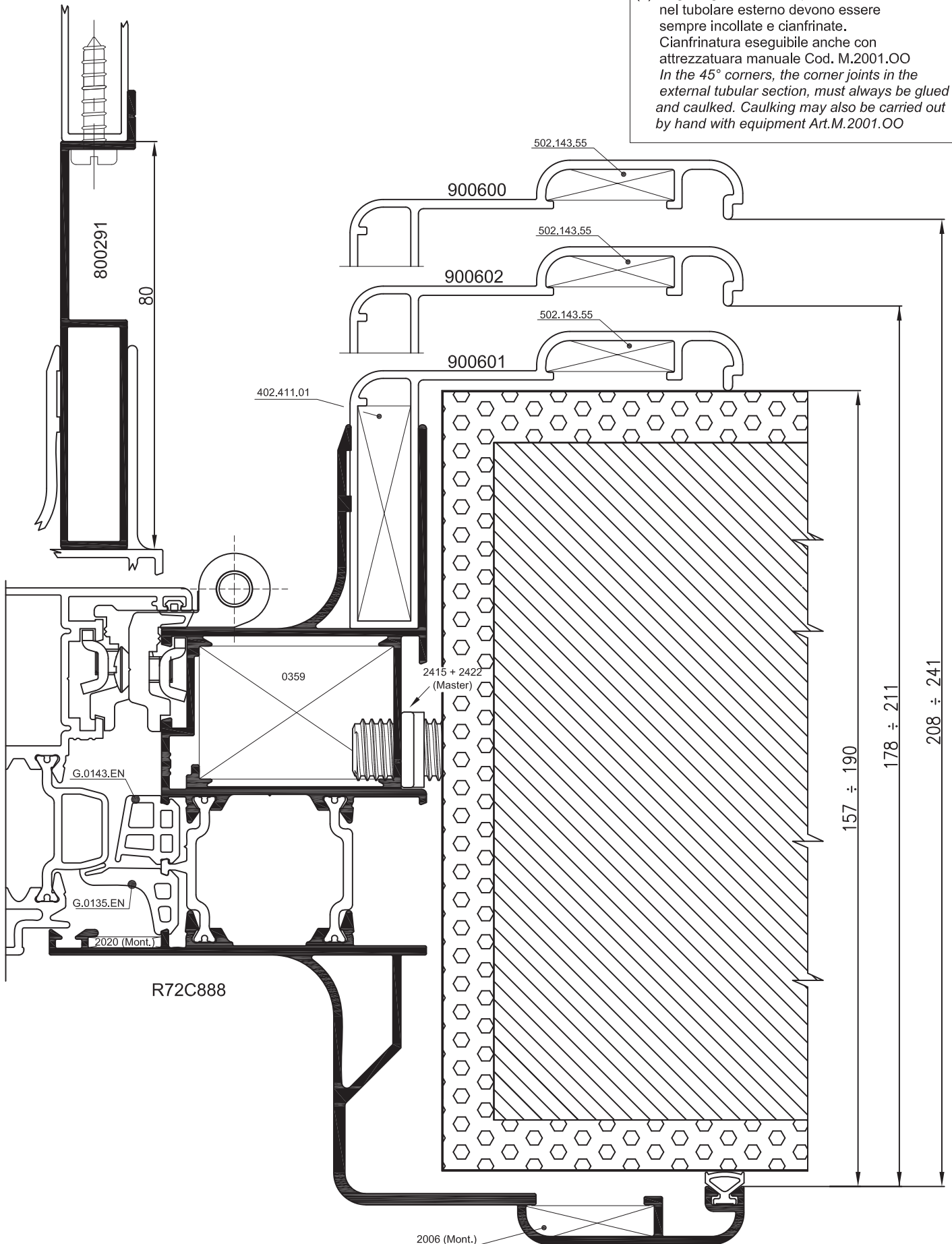


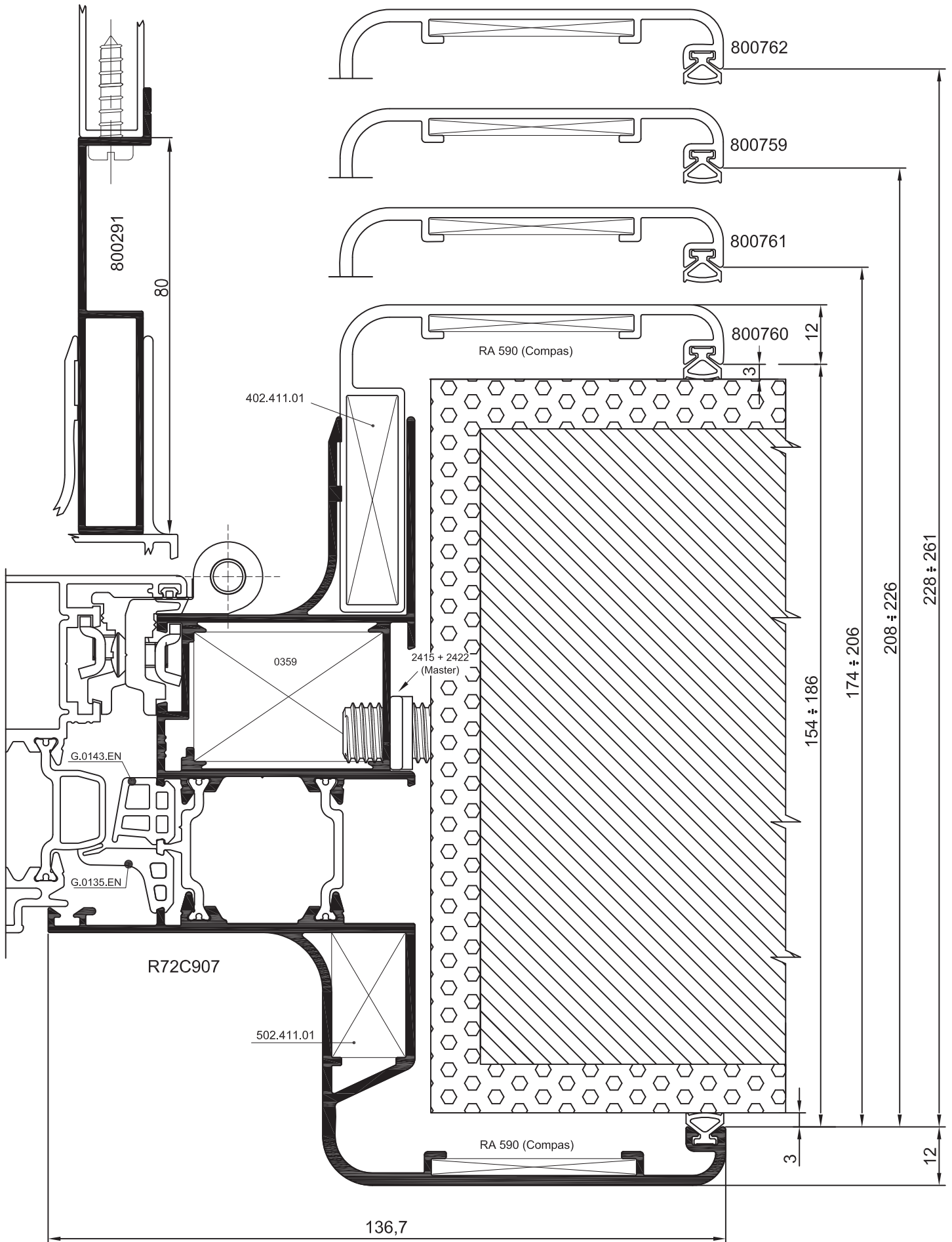


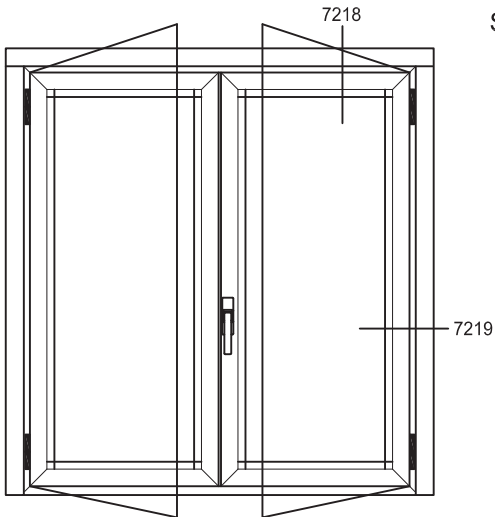
SEZ.7216



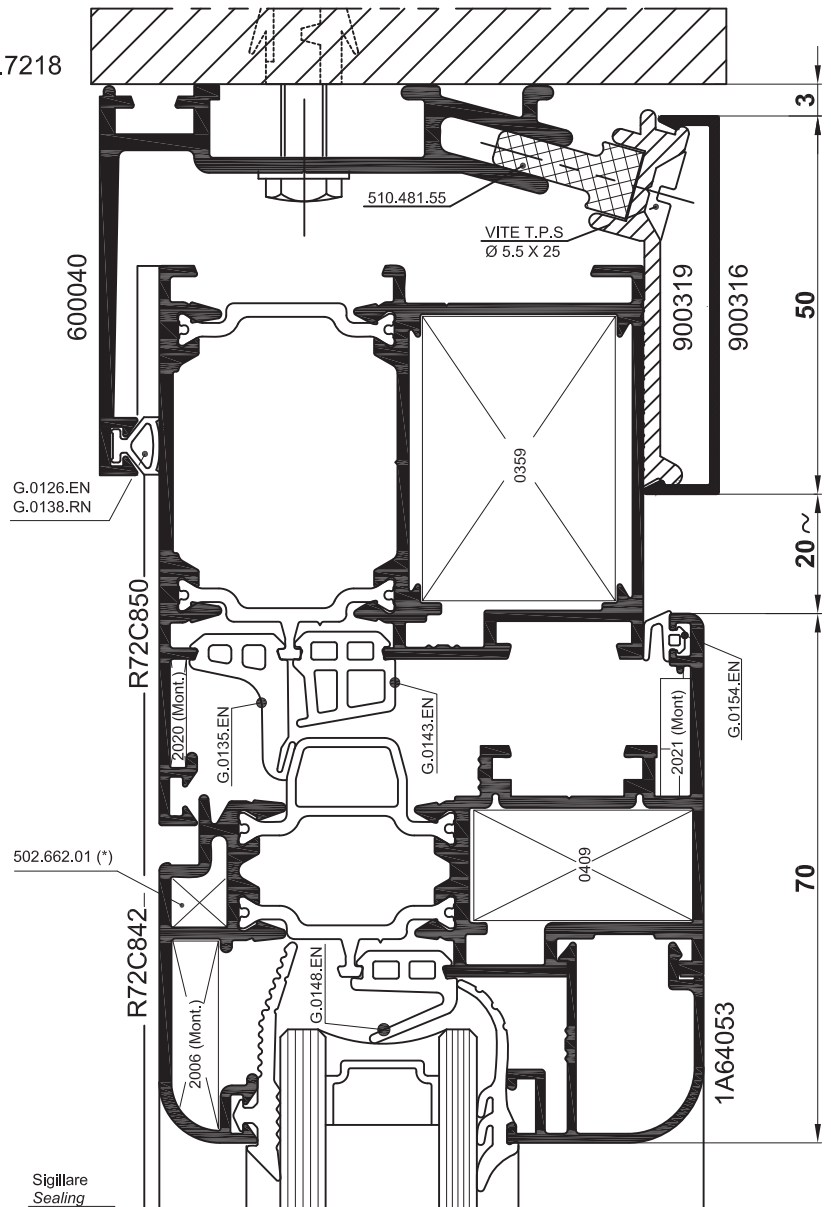
(*) Negli angoli a 45° le squadrette inserite nel tubolare esterno devono essere sempre incollate e cianfrinate. Cianfrinatura eseguibile anche con attrezzatura manuale Cod. M.2001.OO
In the 45° corners, the corner joints in the external tubular section, must always be glued and caulked. Caulking may also be carried out by hand with equipment Art.M.2001.OO





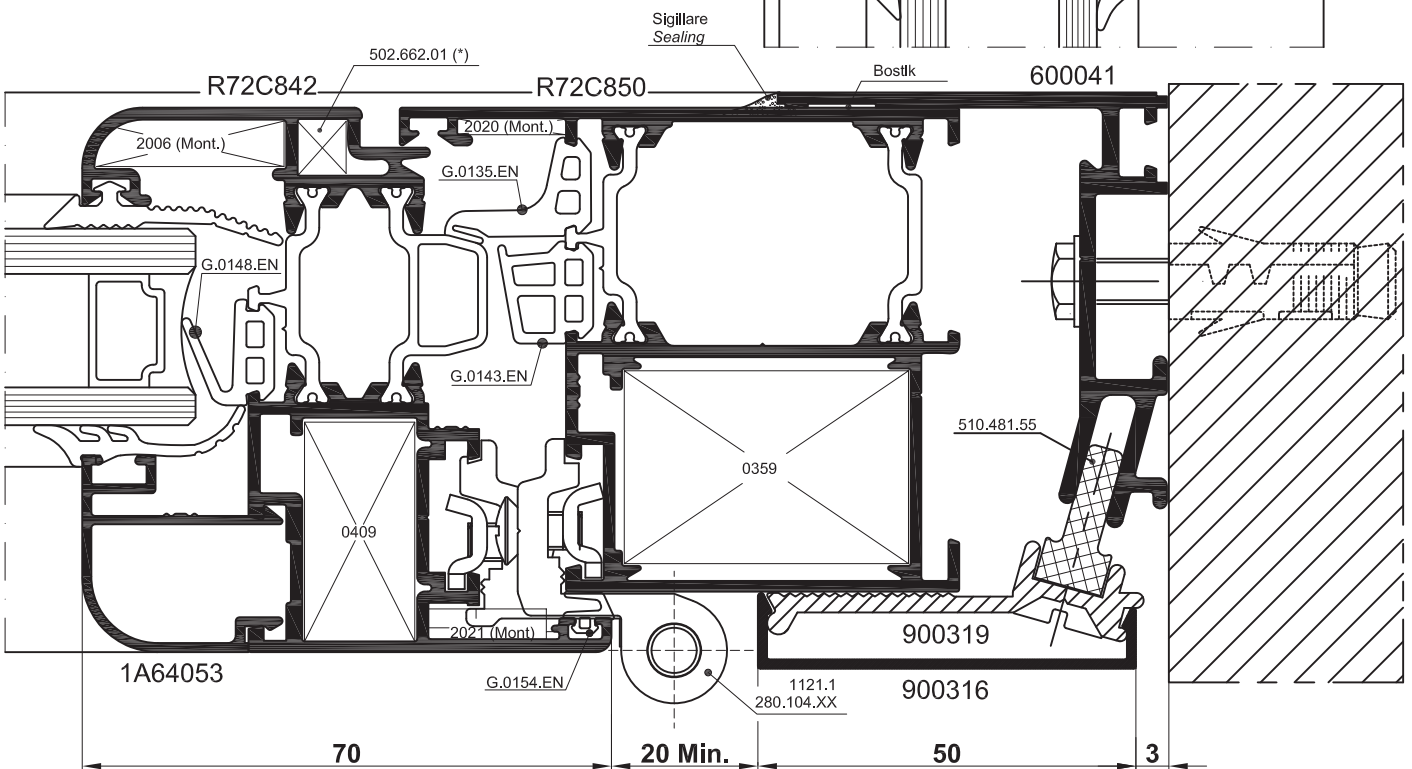


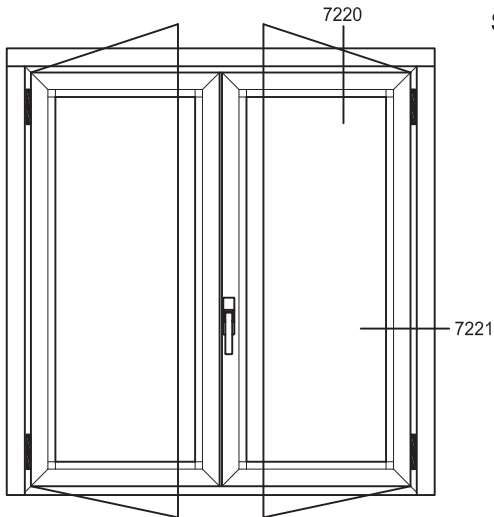
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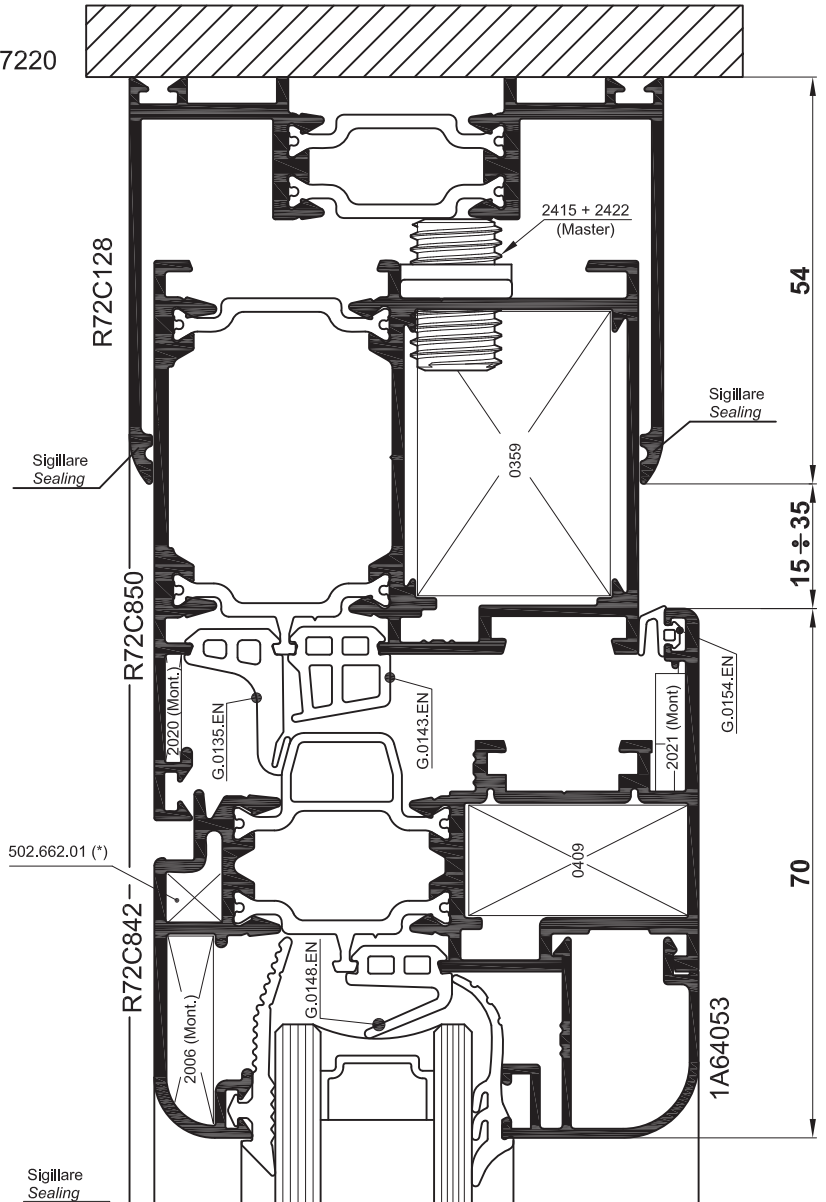
(*) Negli angoli a 45° le squadrette inserite nel tubolare esterno devono essere sempre incollate e cianfrinate. Cianfrinatura eseguibile anche con attrezzatura manuale Cod. M.2001.00
 In the 45° corners, the corner joints in the external tubular section, must always be glued and caulked. Caulking may also be carried out by hand with equipment Art.M.2001.00

SEZ.7219



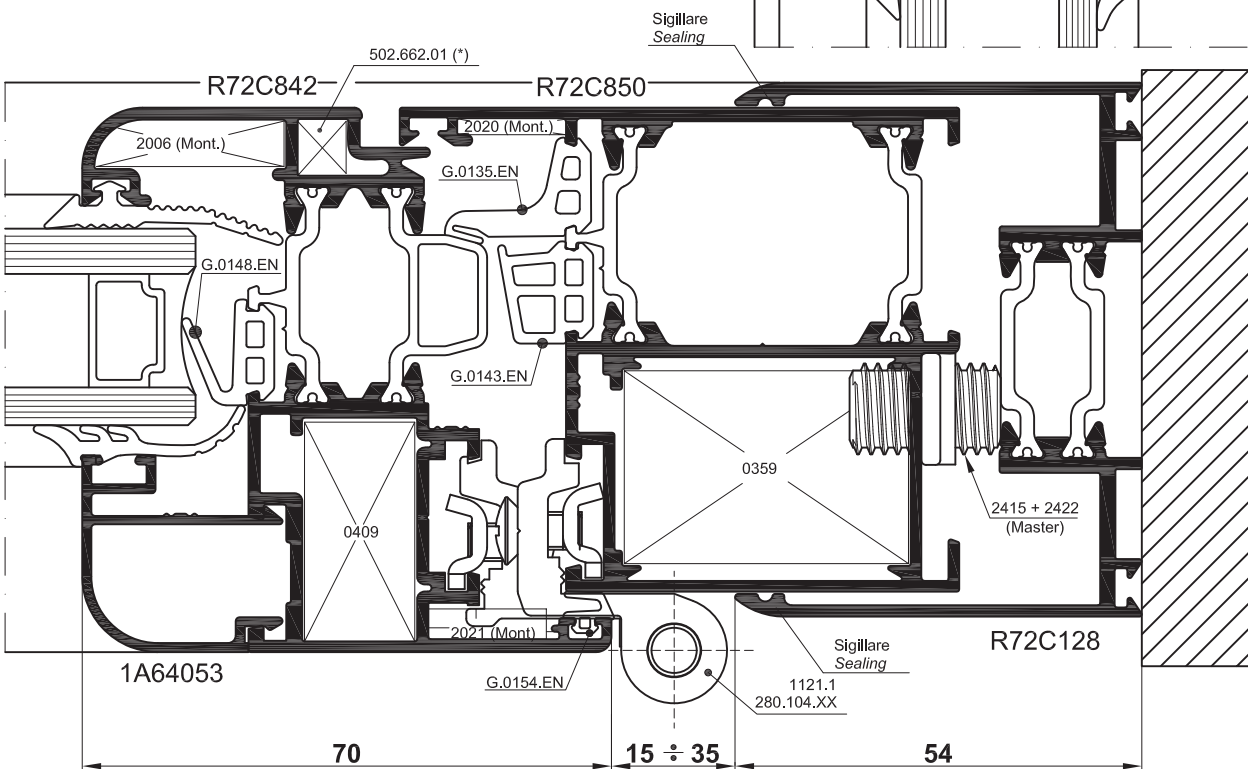


SEZ.7220

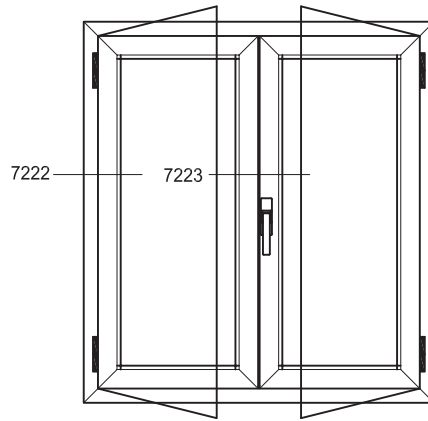


(*) Negli angoli a 45° le squadrette inserite nel tubolare esterno devono essere sempre incollate e cianfrinate. Cianfratura eseguibile anche con attrezzatura manuale Cod. M.2001.00
 In the 45° corners, the corner joints in the external tubular section, must always be glued and caulked. Caulking may also be carried out by hand with equipment Art.M.2001.00

SEZ.7221

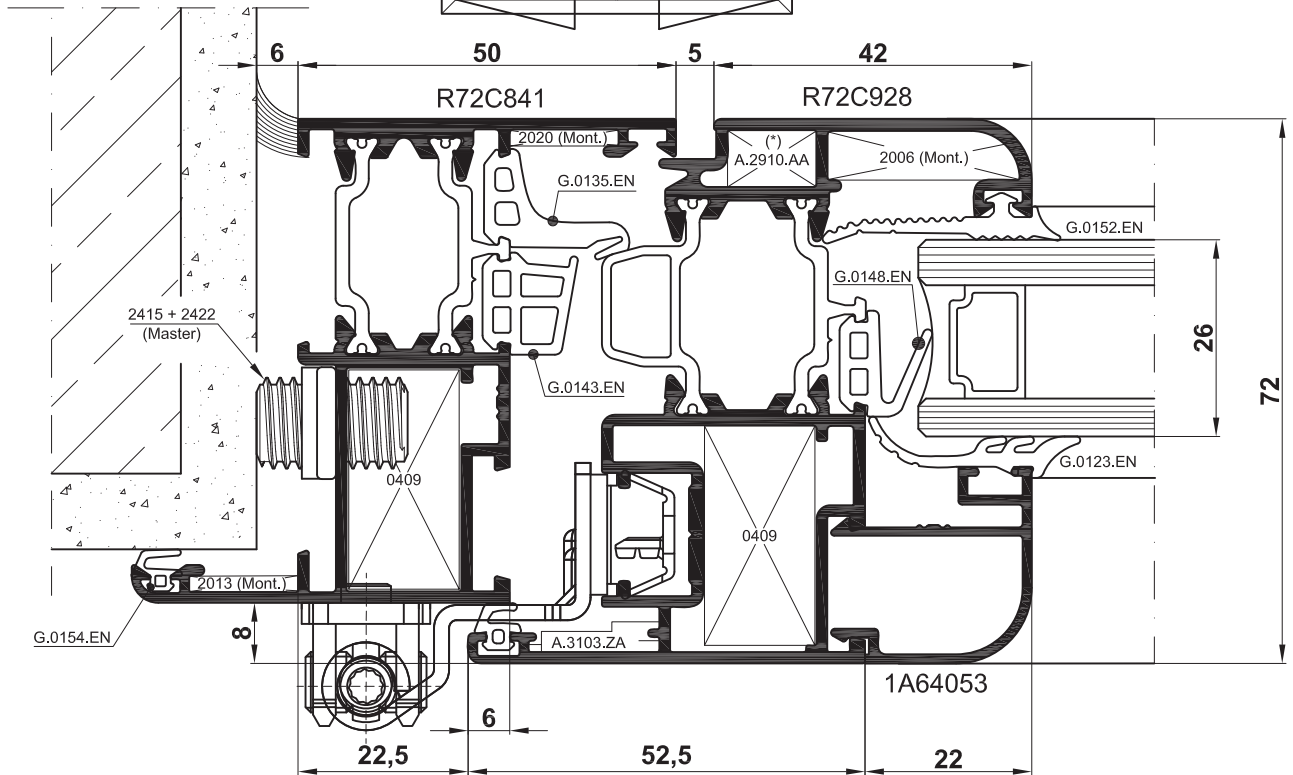


SEZIONI - FINESTRA A DUE ANTE CON FERRAMENTA PERIMETRALE
SECTIONS - TWO WING WINDOW WITH PERIMETRAL FITTING

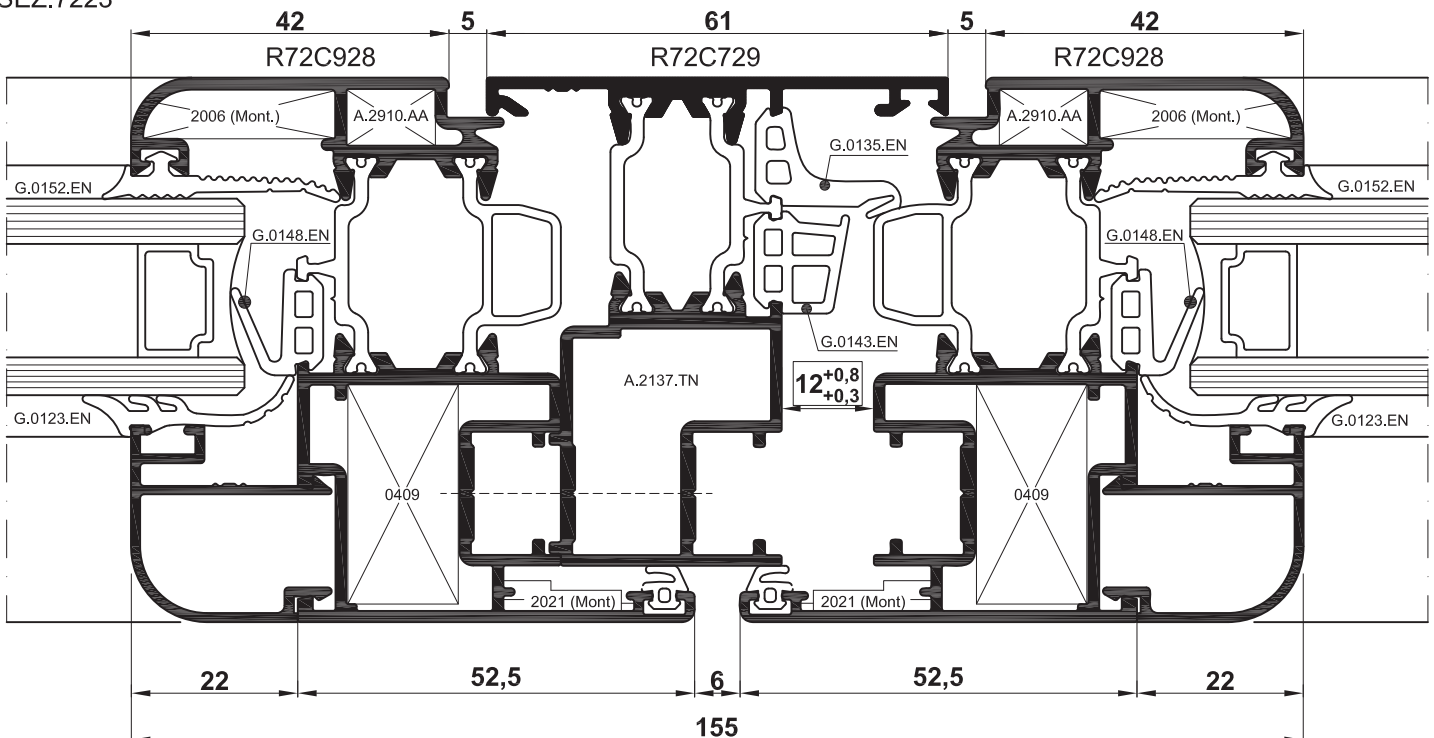


(*) Negli angoli a 45° le squadrette inserite nel tubolare esterno devono essere sempre incollate e cianfrinate/spinate. Cianfrinatura eseguibile anche con attrezzatura manuale Cod. M.2001.00
In the 45° corners, the corner joints in the external tubular section, must always be glued and caulked/pinned. Caulking may also be carried out by hand with equipment Art.M.2001.00

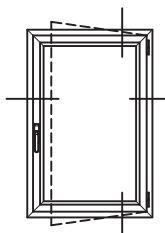
SEZ.7222



SEZ.7223

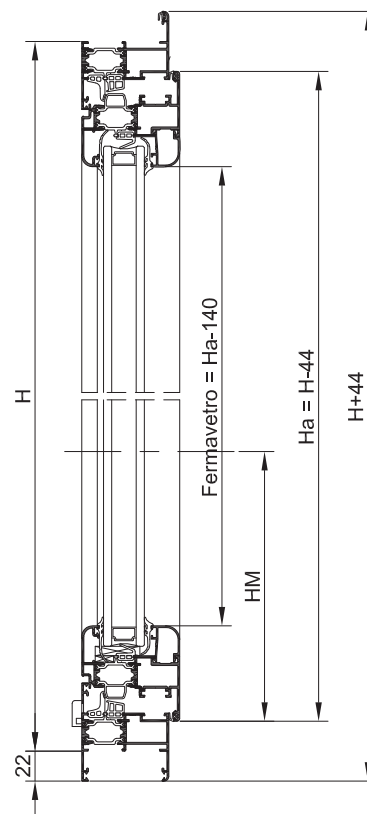
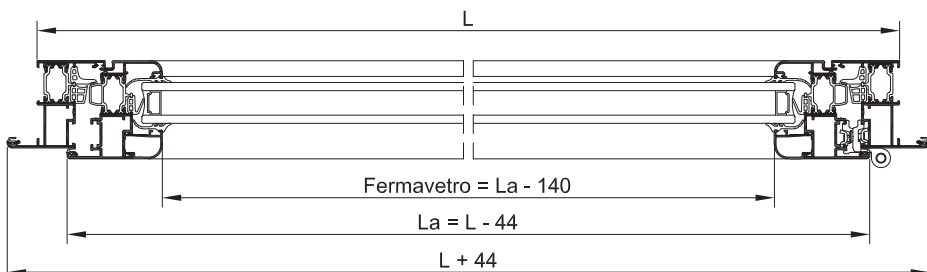


FINESTRA 1 ANTA
ONE-WING WINDOW



N.B: - Le dimensioni di taglio e di lavorazione indicate nelle pagine seguenti sono state ottenute considerando le quote teoriche.
Pertanto è necessario verificare sempre le dimensioni dei profilati prima di effettuare i tagli.
Sapa declina ogni responsabilità per errori dovuti al mancato controllo da parte del costruttore.

N.B: - The cutting and processing dimensions, indicated in the following pages, are obtained considering theoretical values.
It is, therefore, always necessary to check the dimensions of the profiles before executing the cutting.
Sapa declines any responsibility from errors caused from the missing dimensional check of the carpenter



PROFILATI
SECTIONS

Profilato Section	N° Pz.	Taglio Cut	N° Pz.	Taglio Cut
	2	 H + 44	1	 L + 44
			1	 L + 44
	2	 Ha = H - 44	2	 La = L - 44
	2	 Ha - 140	2	 La - 140
	1	 (Inferiore/Lower) Hm - X	1	 (Superiore/Upper) Ha - Hm - X

Misura da stabilire in funzione degli accessori utilizzati
Cut dimensions to define considering the used accessories

DIMENSIONI VETRO
GLASS SIZE

N. 1 PEZZO	N.B.: Spessore vetro considerato 30 mm (6+15+4/4) Gioco perimetrale tra profilato e vetro 5 mm For glass with 30 mm thickness Space between glass and profile 5 mm
Ha - 106	
La - 106	

ACCESSORI
ACCESSORIES

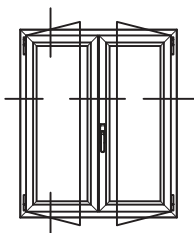


ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.
0409 (Mont.)	Squadretta d'angolo Corner joint	8	280.104.XX	Cerniera sfilabile a 2 ali Two-leaf slip-off hinge	2	1121.1	Cerniera sfilabile a 2 ali Two-leaf slip-off hinge	2
2006 (Mont.)	Squadretta di allineamento prof. compl "FUJI" Alignment corner joint coplanar profiles "FUJI"	4	280.011.XX	Cremonese reversibile "Vela" apertura Interna "Vela" reversible cremone bolt	1	870.2	Cremonese reversibile "Manon" apertura Interna "Manon" reversible cremone bolt	1
2013 (Mont.)	Squadretta di allineamento "FUJI" Alignment corner joint "FUJI"	4	280.151.55	Kit anta apribile Kit for side hung	1	1484.4	Innesti cremonese In nylon Nylon couplings	1 (Cp)
2020 (Mont.)	Squadretta di allineamento "FUJI" Alignment corner joint "FUJI"	4	509.261.55	Paratempesta in nylon Nylon water drainage cover	2	1485	Terminale asta con puntale in acciaio zincato Terminal rod with galvanized steel bushing	1 (Cp)
2021 (Mont.)	Squadretta di allineamento int. "FUJI" Internal alignment corner joint "FUJI"	4				1404	Incontro per terminali Striker for terminal	2
502.662.01	Squadretta a cianfrinare su prof. est. anta External corner joint to be crimped	4				1875.1	Paratempesta in nylon Nylon water drainage cover	2
2415 (Master)	Basetta regolo mobile Plate for adjustable block	6						
2422 (Master)	Regolo mobile L = 20mm Adjustable block L = 20mm	6						
A.0202.BA	Angolo stampato per fermavetro arrotondato Moulded corner for snap-on rounded glass beading	4	A.2832.AA	Supporto vetro Glass support	2			
A.0228.EN	Angolo stampato per guarnizione precamera Printed angle for central weatherstrip	4	Comm.le	Tassello spessoramento vetri Shim for glasses	4			

GUARNIZIONI
WEATHERSTRIPS

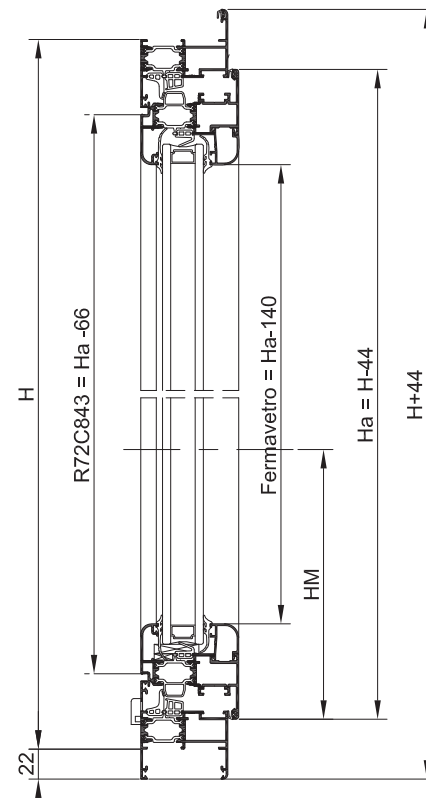
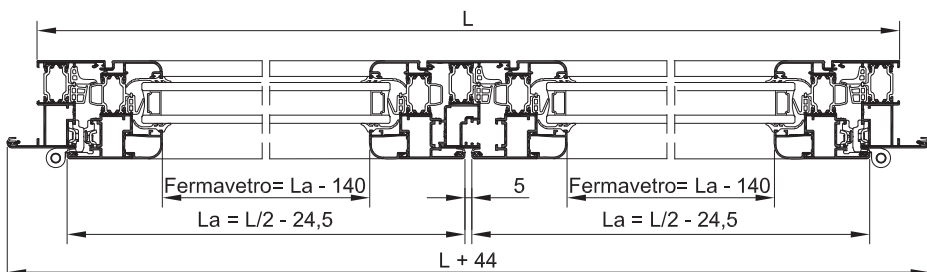
ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.
G.0154.EN	Guarnizione di battuta Weatherstrip of rabbet	4H 3L	G.0152.EN	Guarnizione esterna vetri da 3 mm mm 5 glass support external weatherstrip	2H 2L	G.0143.EN	Guarnizione aggiuntiva di precamera Additional central weatherstrip	2H 2L
G.0135.EN	Guarnizione di precamera Central Weatherstrip	2H 2L	G.0123.EN	Guarnizione su fermavetro spessore 5 mm Weatherstrip on glazing bead shim mm 5	2H 2L	G.0148.EN	Guarnizione sotto vetro Weatherstrip under glass	2H 2L

FINESTRA 2 ANTE
TWO-WINGS WINDOW



N.B.: - Le dimensioni di taglio e di lavorazione indicate nelle pagine seguenti sono state ottenute considerando le quote teoriche.
Pertanto è necessario verificare sempre le dimensioni dei profilati prima di effettuare i tagli.
Sapa declina ogni responsabilità per errori dovuti al mancato controllo da parte del costruttore.

N.B.: - The cutting and processing dimensions, indicated in the following pages, are obtained considering theoretical values.
It is, therefore, always necessary to check the dimensions of the profiles before executing the cutting.
Sapa declines any responsibility from errors caused from the missing dimensional check of the carpenter



PROFILATI
SECTIONS

Profilato Section	N° Pz.	Taglio Cut	N° Pz.	Taglio Cut
	2		1	
			1	
	4		4	
	1			
	4		4	
	1		1	

Misura da stabilire in funzione degli accessori utilizzati
Cut dimensions to define considering the used accessories

DIMENSIONE VETRI
GLASSES SIZE

N. 2 PEZZI		N.B.: Spessore vetro considerato 30 mm (6+15+4/4)
Ha - 106		Gioco perimetrale tra profilato e vetro 5 mm
La - 106		For glass with 30 mm thickness
		Space between glass and profile 5 mm

ACCESSORI
ACCESSORIES

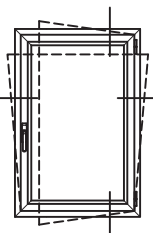


ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.
0409 (Mont.)	Squadretta d'angolo Corner joint	12	280.104.XX	Cerniera sfilabile a 2 ali Two-leaf slip-off hinge	4	1121.1	Cerniera sfilabile a 2 ali Two-leaf slip-off hinge	4
2006 (Mont.)	Squadretta di allineamento prof. compl "FUJI" Alignment corner joint coplanar profiles "FUJI"	8	280.011.XX	Cremonese reversibile "Vela" apertura Interna "Vela" reversible cremone bolt	1	870.2	Cremonese reversibile "Manon" apertura Interna "Manon" reversible cremone bolt	1
2013 (Mont.)	Squadretta di allineamento "FUJI" Alignment corner joint "FUJI"	4	280.151.55	Kit anta apribile Kit for side hung	1	1484.4	Innesti cremonese in nylon Nylon couplings	1 (Cp)
2020 (Mont.)	Squadretta di allineamento "FUJI" Alignment corner joint "FUJI"	4	280.155.05	Kit paletti per anta semifissa Kit bolt heads for semifixed leaf	1	1485	Terminale asta con puntale in acciaio zincato Terminal rod with galvanized steel bushing	1 (Cp)
2021 (Mont.)	Squadretta di allineamento int. "FUJI" Internal alignment corner joint "FUJI"	8	509.261.55	Paratempsta in nylon Nylon water drainage cover	2	1541.6	Paletto a manovra diretta in nylon/inossidabile Direct-acting bolt operator kit in nylon/stainless steel	2
502.662.01	Squadretta a cianfrinare su prof. est. anta External corner joint to be crimped	8				1415	Incontro doppio per terminali Double striker for terminal	2
2415 (Master)	Basetta regolo mobile Plate for adjustable block	6				1875.1	Paratempsta in nylon Nylon water drainage cover	2
2422 (Master)	Regolo mobile L = 20mm Adjustable block L = 20mm	6						
A.0202.BA	Angolo stampato per fermavetro arrotondato Moulded corner for snap-on rounded glass beading	8						
A.0228.EN	Angolo stampato per guarnizione precamera Printed angle for central weatherstrip	4	A.2832.AA	Supporto vetro Glass support	4			
A.2128.TN	Coppia tappi riporto centrale R72C843 pair of plug for central rabbet on R72C843	1	Comm.le	Tassello spessoramento vetri Shim for glasses	8			

GUARNIZIONI
WEATHERSTRIPS

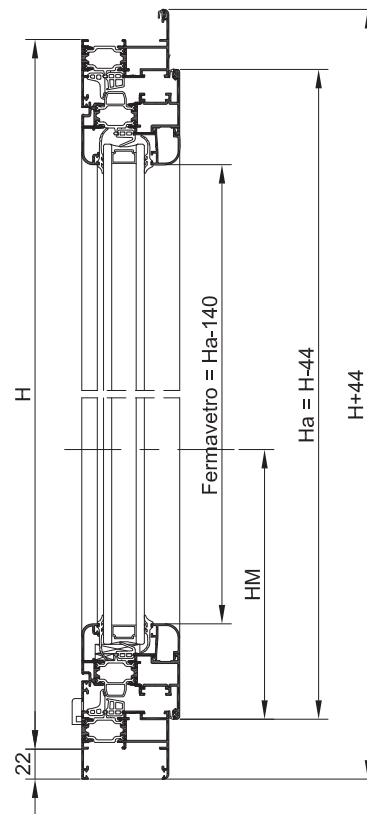
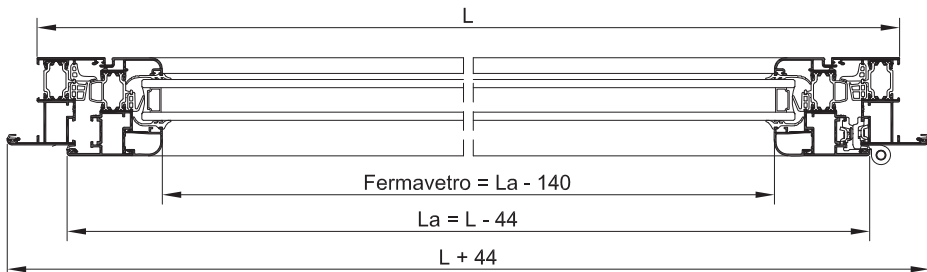
ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.
G.0154.EN	Guarnizione di battuta Weatherstrip of rabbet	6H 3L	G.0152.EN	Guarnizione esterna vetri da 3 mm mm 5 glass support external weatherstrip	4H 2L	G.0143.EN	Guarnizione aggiuntiva di precamera Additional central weatherstrip	3H 2L
G.0135.EN	Guarnizione di precamera Central Weatherstrip	3H 2L	G.0123.EN	Guarnizione su fermavetro spessore 5 mm Weatherstrip on glazing bead shim mm 5	4H 2L	G.0148.EN	Guarnizione sotto vetro Weatherstrip under glass	4H 2L

FINESTRA 1 ANTA A RIBALTA
TILT AND TURN WINDOW



N.B: - Le dimensioni di taglio e di lavorazione indicate nelle pagine seguenti sono state ottenute considerando le quote teoriche.
Pertanto è necessario verificare sempre le dimensioni dei profilati prima di effettuare i tagli.
Sapa declina ogni responsabilità per errori dovuti al mancato controllo da parte del costruttore.

N.B: - The cutting and processing dimensions, indicated in the following pages, are obtained considering theoretical values.
It is, therefore, always necessary to check the dimensions of the profiles before executing the cutting.
Sapa declines any responsibility from errors caused from the missing dimensional check of the carpenter



PROFILATI
SECTIONS

Profilato Section	N° Pz.	Taglio Cut	N° Pz.	Taglio Cut
	2	H + 44	1	L + 44
			1	L + 44
	2	Ha = H - 44	2	La = L - 44
	2	Ha - 140	2	La - 140
	1	Verticale inferiore Lower Vertical Hm - X(*)	1	Verticale Superiore Upper Vertical Hm - X(*)
			1	Orizzontale Superiore Upper Horizontal La - X(*)

DIMENSIONI VETRO
GLASS SIZE

N. 1 PEZZO	N.B.: Spessore vetro considerato 30 mm (6+15+4/4) Gioco perimetrale tra profilato e vetro 5 mm For glass with 30 mm thickness Space between glass and profile 5 mm
Ha - 106	
La - 106	

(*) Misura da stabilire in funzione del tipo e delle dimensioni dell'anta-ribalta utilizzata
(*) Cut dimensions to define considering the type and the dimensions of tilt and turn to be used

Attenzione: in corrispondenza del cardine inferiore A.R., non utilizzare squadretta 2021 (Mont.)
Attention: in corrispondence of the bottom hinge, do not use corner joint 2021 (Mont.)

ACCESSORI
ACCESSORIES

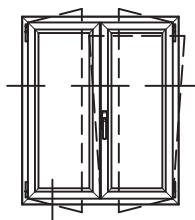


ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.
0409 (Mont.)	Squadretta d'angolo Corner joint	8	280.303.XX	Gruppo anta-ribalta "Bora" completo "Bora" tilt and turn complete kit	1	3200.751R	Braccio standard Dx (L da 510 a 794mm) Right standard stay arm (W from 510 to 794mm)	1
2006 (Mont.)	Squadretta di allineamento prof. compl "FUJI" Alignment corner joint coplanar profiles "FUJI"	4	509.261.55	Paratempesta in nylon Nylon water drainage cover	2	3200.752R	Braccio lungo Dx (Larghezza da 795 a 1200mm) Right standard stay arm (W from 795 to 1200mm)	1
2013 (Mont.)	Squadretta di allineamento "FUJI" Alignment corner joint "FUJI"	4				3200.R	Kit fulcro verticale (con cardine e supporto cerniera) Vertical pivot kit (including hinge support)	1
2020 (Mont.)	Squadretta di allineamento "FUJI" Alignment corner joint "FUJI"	4				3200.709	Kit di cerniere ambidestre Ambidextrous hinge kit	1
2021 (Mont.)	Squadretta di allineamento int. "FUJI" Internal alignment corner joint "FUJI"	3				3205.XX	Asta di collegamento (per le misure vedi Istruzioni) Linking bar (for the measures see instructions)	1
502.662.01	Squadretta a cianfrinare su prof. est. anta External corner joint to be crimped	4	A.2832.AA	Supporto vetro Glass support	2	873.2	Cremonese (interasse 92 - 104 mm) Cremonese bolt (centre distance 92 - 104mm)	1
2415 (Master)	Basetta regolo mobile Plate for adjustable block	6	Comm.le	Tassello spessoramento vetri Shim for glasses	4	1875.1	Paratempesta in nylon Nylon water drainage cover	2
2422 (Master)	Regolo mobile L = 20mm Adjustable block L = 20mm	6	NB: accessori necessari per ante da L 510 fino a 1200 mm e H 600 fino a 1200 mm, con 4 punti di chiusura. Per accessori non indicati consultare il catalogo del costruttore. Necessary accessories for shutter from L 510 to 1200 mm and H 600 to 1200 mm, with 4 locking points. For accessories not indicated please refer to the construction catalogue.			NB: accessori necessari per ante da L 510 fino a 1200 mm e H 700 fino a 1400 mm, portata 110 Kg. Per accessori non indicati consultare il catalogo del costruttore Necessary accessories for shutter from L 510 to 1200 mm and H 700 to 1400 mm, max capacity 110 Kg. For accessories not indicated please refer the construction catalogue		
A.0202.BA	Angolo stampato per fermavetro arrotondato Moulded corner for snap-on rounded glass beading	4						
A.0228.EN	Angolo stampato per guarnizione precamera Printed angle for central weatherstrip	4						

GUARNIZIONI
WEATHERSTRIPS

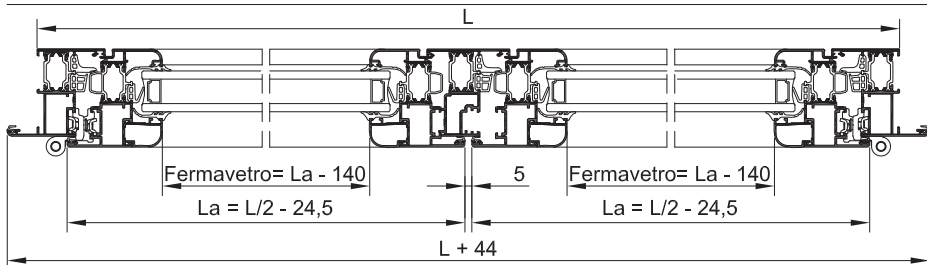
ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.
G.0154.EN	Guarnizione di battuta Weatherstrip of rabbet	4H 3L	G.0152.EN	Guarnizione esterna vetri da 3 mm mm 5 glass support external weatherstrip	2H 2L	G.0143.EN	Guarnizione aggiuntiva di precamera Additional central weatherstrip	2H 2L
G.0135.EN	Guarnizione di precamera Central Weatherstrip	2H 2L	G.0123.EN	Guarnizione su fermavetro spessore 5 mm Weatherstrip on glazing bead shim mm 5	2H 2L	G.0148.EN	Guarnizione sotto vetro Weatherstrip under glass	2H 2L

FINESTRA 2 ANTE
CON ANTA RIBALTA
WING WINDOW - OVERLAP
AND TILT-AND-TURN



N.B.: - Le dimensioni di taglio e di lavorazione indicate nelle pagine seguenti sono state ottenute considerando le quote teoriche.
Pertanto è necessario verificare sempre le dimensioni dei profilati prima di effettuare i tagli.
Sapa declina ogni responsabilità per errori dovuti al mancato controllo da parte del costruttore.

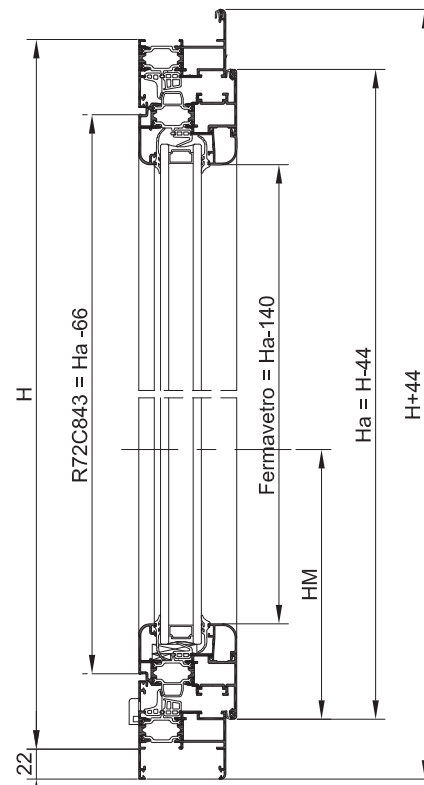
N.B.: - The cutting and processing dimensions, indicated in the following pages, are obtained considering theoretical values.
It is, therefore, always necessary to check the dimensions of the profiles before executing the cutting.
Sapa declines any responsibility from errors caused from the missing dimensional check of the carpenter



PROFILATI
SECTIONS

Profilato Section	N° Pz.	Taglio Cut	N° Pz.	Taglio Cut
	2	H + 44	1	L + 44
			1	L + 44
	4	Ha = H - 44	4	La = L/2 - 24,5
	1	Ha - 66		
	4	Ha - 140	4	La - 140
	1	(Inferiore/Lower) Hm - X	1	(Superiore/Upper) Ha - Hm - X

Misura da stabilire in funzione degli accessori utilizzati
Cut dimensions to define considering the used accessories



DIMENSIONE VETRI
GLASSES SIZE

N. 2 PEZZI	N.B.: Spessore vetro considerato 30 mm (6+15+4/4) Gioco perimetrale tra profilato e vetro 5 mm For glass with 30 mm thickness Space between glass and profile 5 mm
Ha - 106	
La - 106	

Attenzione: in corrispondenza dei cardini inferiori A.R., non utilizzare squadretta 2021 (Mont.)
Attention: in correspondence of the bottom hinges, do not use corner joint 2021 (Mont.)

ACCESSORI
ACCESSORIES

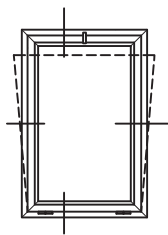


ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.
0409 (Mont.)	Squadretta d'angolo Corner joint	12	280.303.XX	Gruppo anta-ribalta "Bora" completo "Bora" tilt and turn complete kit	1	3200.751R	Braccio standard Dx (L da 510 a 794mm) Right standard stay arm (W from 510 to 794mm)	1
2006 (Mont.)	Squadretta di allineamento prof. compl "FUJI" Alignment corner joint coplanar profiles "FUJI"	8	280.380.XX	Kit cerniere per anta affiancata Hinge set for inactive leaf paired	1	3200.752R	Braccio lungo Dx (Larghezza da 795 a 1200mm) Right standard stay arm (W from 795 to 1200mm)	1
2013 (Mont.)	Squadretta di allineamento "FUJI" Alignment corner joint "FUJI"	4	280.388.XX	Paletto per anta affiancata Operator for inactive leaf paired	1	3200.R	Kit fulcro verticale (con cardine e supporto cerniera) Vertical pivot kit (including hinge support)	1
2020 (Mont.)	Squadretta di allineamento "FUJI" Alignment corner joint "FUJI"	4	509.261.55	Paratempsta in nylon Nylon water drainage cover	2	3200.709	Kit di cerniere ambidestre Ambidextrous hinge kit	2
2021 (Mont.)	Squadretta di allineamento int. "FUJI" Internal alignment corner joint "FUJI"	6				3200.840L	Supporto superiore regolabile Upper adjustable support	1
502.662.01	Squadretta a cianfrinare su prof. est. anta External corner joint to be crimped	8				3200.710L	Supporto Inferiore e cardine Lower hinge and support	1
2415 (Master)	Basetta regolo mobile Plate for adjustable block	6				3205.XX	Asta di collegamento (per le misure vedi istruzioni) Linking bar (for the measures see instructions)	
2422 (Master)	Regolo mobile L = 20mm Adjustable block L = 20mm	6	A.2832.AA	Supporto vetro Glass support	4	873.2	Cremonese (interasse 92 - 104 mm) Cremonese bolt (centre distance 92 - 104mm)	1
A.0202.BA	Angolo stampato per fermavetro arrotondato Moulded corner for snap-on rounded glass beading	8	Comm.le	Tassello spessoramento vetri Shim for glasses	8	1875.1	Paratempsta in nylon Nylon water drainage cover	2
A.0228.EN	Angolo stampato per guarnizione precamera Printed angle for central weatherstrip	4	NB: accessori necessari per ante da L 510 fino a 1200 mm e H 600 fino a 1200 mm, con 4 punti di chiusura. Per accessori non indicati consultare il catalogo del costruttore. Necessary accessories for shutter from L 510 to 1200 mm and H 600 to 1200 mm, with 4 locking points. For accessories not indicated, please refer the construction catalogue.			NB: accessori necessari per ante da L 510 fino a 1200 mm e H 700 fino a 1400 mm, portata 110 Kg. Per accessori non indicati consultare il catalogo del costruttore Necessary accessories for shutter from L 510 to 1200 mm and H 700 to 1400 mm, max capacity 110 Kg. For accessories not indicated please refer the construction catalogue.		
A.2128.TN	Coppia tappi riporto centrale R72C843 pair of plug for central rabbet on R72C843	1						

GUARNIZIONI
WEATHERSTRIPS

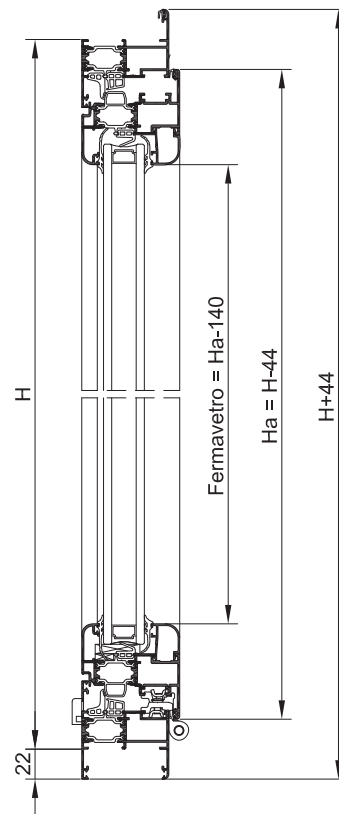
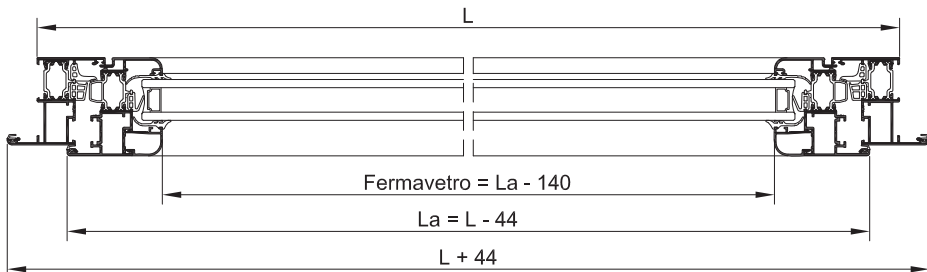
ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.
G.0154.EN	Guarnizione di battuta Weatherstrip of rabbet	6H 3L	G.0152.EN	Guarnizione esterna vetri da 3 mm mm 5 glass support external weatherstrip	4H 2L	G.0143.EN	Guarnizione aggiuntiva di precamera Additional central weatherstrip	3H 2L
G.0135.EN	Guarnizione di precamera Central Weatherstrip	3H 2L	G.0123.EN	Guarnizione su fermavetro spessore 5 mm Weatherstrip on glazing bead shim mm 5	4H 2L	G.0148.EN	Guarnizione sotto vetro Weatherstrip under glass	4H 2L

FINESTRA VASISTAS
OVERLAP HOPPER WINDOW



N.B: - Le dimensioni di taglio e di lavorazione indicate nelle pagine seguenti sono state ottenute considerando le quote teoriche.
Pertanto è necessario verificare sempre le dimensioni dei profilati prima di effettuare i tagli.
Sapa declina ogni responsabilità per errori dovuti al mancato controllo da parte del costruttore.

N.B: - The cutting and processing dimensions, indicated in the following pages, are obtained considering theoretical values.
It is, therefore, always necessary to check the dimensions of the profiles before executing the cutting.
Sapa declines any responsibility from errors caused from the missing dimensional check of the carpenter



PROFILATI
SECTIONS

Profilato Section	N° Pz.	Taglio Cut	N° Pz.	Taglio Cut
	2		1	
	1		1	
	2		2	
	2		2	

DIMENSIONI VETRO
GLASS SIZE

N. 1 PEZZO	N.B.: Spessore vetro considerato 30 mm (6+15+4/4) Gioco perimetrale tra profilato e vetro 5 mm For glass with 30 mm thickness Space between glass and profile 5 mm
Ha - 106	
La - 106	

ACCESSORI
ACCESSORIES

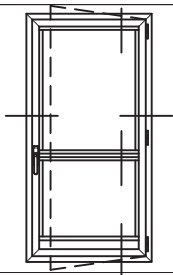


ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.
0409 (Mont.)	Squadretta d'allineamento prof. compl "FUJI" Corner joint	8	280.104.XX	Cerniera sfilabile a 2 ali Two-leaf slip-off hinge	2	1121.1	Cerniera sfilabile a 2 ali Two-leaf slip-off hinge	2
2006 (Mont.)	Squadretta di allineamento prof. compl "FUJI" Alignment corner joint coplanar profiles "FUJI"	4	295.007.00	Coppia compassi per vasistas portata max 40Kg Pair of arms for hopper window capacity max 40Kg	2	1344	Braccio d'arresto sgancabile portata max due bracci 70 Kg Releasable arm stay carrying max capacity two arms 70 Kg	2
2013 (Mont.)	Squadretta di allineamento "FUJI" Alignment corner joint "FUJI"	4	280.079.XX	Cricchetto ad agganciare in alluminio e nylon Aluminium and nylon catch	1			
2020 (Mont.)	Squadretta di allineamento "FUJI" Alignment corner joint "FUJI"	4	509.261.55	Paratempesta in nylon Nylon water drainage cover	2	1390.1	Cricchetto ad agganciare in alluminio e nylon Aluminium and nylon catch	1
2021 (Mont.)	Squadretta di allineamento int. "FUJI" Internal alignment corner joint "FUJI"	4				1875.1	Paratempesta in nylon Nylon water drainage cover	2
502.662.01	Squadretta a cianfrinare su prof. est. anta External corner joint to be crimped	4						
2415 (Master)	Basetta regolo mobile Plate for adjustable block	6						
2422 (Master)	Regolo mobile L = 20mm Adjustable block L = 20mm	6						
A.0202.BA	Angolo stampato per fermavetro arrotondato Moulded corner for snap-on rounded glass beading	4	A.2832.AA	Supporto vetro Glass support	2			
A.0228.EN	Angolo stampato per guarnizione precamera Printed angle for central weatherstrip	4	Comm.le	Tassello spessoramento vetri Shim for glasses	4			

GUARNIZIONI
WEATHERSTRIPS

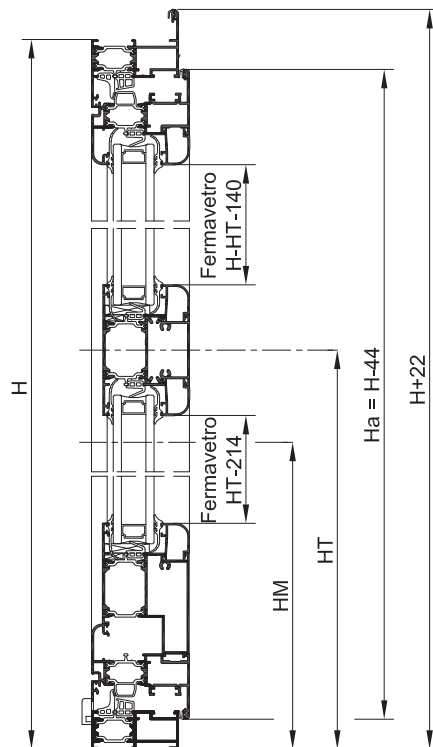
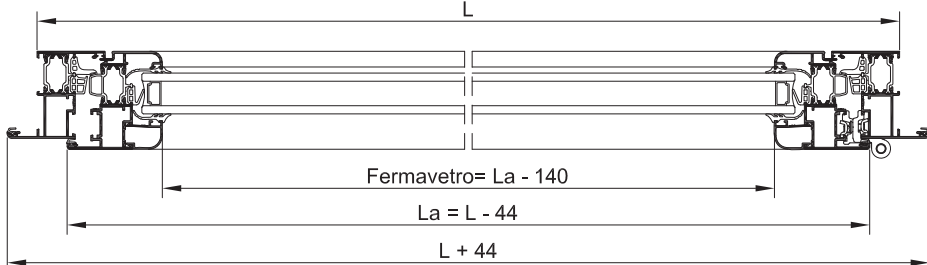
ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.
G.0154.EN	Guarnizione di battuta Weatherstrip of rabbet	4H 3L	G.0152.EN	Guarnizione esterna vetri da 3 mm mm 5 glass support external weatherstrip	2H 2L	G.0143.EN	Guarnizione aggiuntiva di precamera Additional central weatherstrip	2H 2L
G.0135.EN	Guarnizione di precamera Central Weatherstrip	2H 2L	G.0123.EN	Guarnizione su fermavetro spessore 5 mm Weatherstrip on glazing bead shim mm 5	2H 2L	G.0148.EN	Guarnizione sotto vetro Weatherstrip under glass	2H 2L

PORTA
BALCONE 1 ANTA
ONE-WING
BALCONY DOOR



N.B: - Le dimensioni di taglio e di lavorazione indicate nelle pagine seguenti sono state ottenute considerando le quote teoriche.
Pertanto è necessario verificare sempre le dimensioni dei profilati prima di effettuare i tagli.
Sapa declina ogni responsabilità per errori dovuti al mancato controllo da parte del costruttore.

N.B: - The cutting and processing dimensions, indicated in the following pages, are obtained considering theoretical values.
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Sapa declines any responsibility from errors caused from the missing dimensional check of the carpenter



PROFILATI
SECTIONS

Profilato Section	N° Pz.	Taglio Cut	N° Pz.	Taglio Cut		
	2	H + 44	1	L + 44		
			1	L		
	2	Ha = H - 44	2	La = L - 44		
			1	La - 97		
			1	La - 97		
	2	HT - 214	2	H - HT - 140	4	La - 140
	1	(Inferiore/Lower) Hm - X	1	(Superiore/Upper) Ha - Hm - X		

Misura da stabilire in funzione degli accessori utilizzati
Cut dimensions to define considering the used accessories

DIMENSIONE VETRI
GLASSES SIZE

N. 1 PEZZO	N.B.: Spessore vetro considerato 30 mm (6+15+4/4)
HT - 180	Gioco perimetrale tra profilato e vetro 5 mm
La - 106	For glass with 30 mm thickness
N. 1 PEZZO	Space between glass and profile 5 mm
H - HT - 106	
La - 106	

ACCESSORI
ACCESSORIES

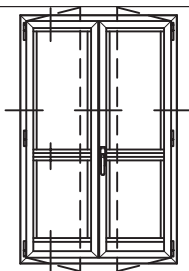


ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.
0409 (Mont.)	Squadretta d'angolo Corner joint	8	280.104.XX	Cerniera sfilabile a 2 ali Two-leaf slip-off hinge	3	1121.1	Cerniera sfilabile a 2 ali Two-leaf slip-off hinge	3
2006 (Mont.)	Squadretta di allineamento prof. compl "FUJI" Alignment corner joint coplanar profiles "FUJI"	4	280.011.XX	Cremonese reversibile "Vela" apertura Interna "Vela" reversible cremone bolt	1	870.2	Cremonese reversibile "Manon" apertura Interna "Manon" reversible cremone bolt	1
2013 (Mont.)	Squadretta di allineamento "FUJI" Alignment corner joint "FUJI"	2	280.151.55	Kit anta apribile Kit for side hung	1	1484.4	Innesti cremonese in nylon Nylon couplings	1 (Cp)
2020 (Mont.)	Squadretta di allineamento "FUJI" Alignment corner joint "FUJI"	4	509.261.55	Paratempsta in nylon Nylon water drainage cover	2	1485	Terminale asta con puntale in acciaio zincato Terminal rod with galvanized steel bushing	1 (Cp)
2021 (Mont.)	Squadretta di allineamento int. "FUJI" Internal alignment corner joint "FUJI"	4				1404	Incontro per terminali Striker for terminal	2
502.662.01	Squadretta a cianfrinare su prof. est. anta External corner joint to be crimped	4				1875.1	Paratempsta in nylon Nylon water drainage cover	2
2415 (Master)	Basetta regolo mobile Plate for adjustable block	8						
2422 (Master)	Regolo mobile L = 20mm Adjustable block L = 20mm	6						
A.0202.BA	Angolo stampato per fermavetro arrotondato Moulded corner for snap-on rounded glass beading	8						
A.0228.EN	Angolo stampato per guarnizione precamera Printed angle for central weatherstrip	4	A.2832.AA	Supporto vetro Glass support	4			
Comm.le	Tassello spessoramento vetri Shim for glasses	8	A.3204.ZA	Cavallotto di giunzione telai-traversi Tjoint for frames and transoms	6			

GUARNIZIONI
WEATHERSTRIPS

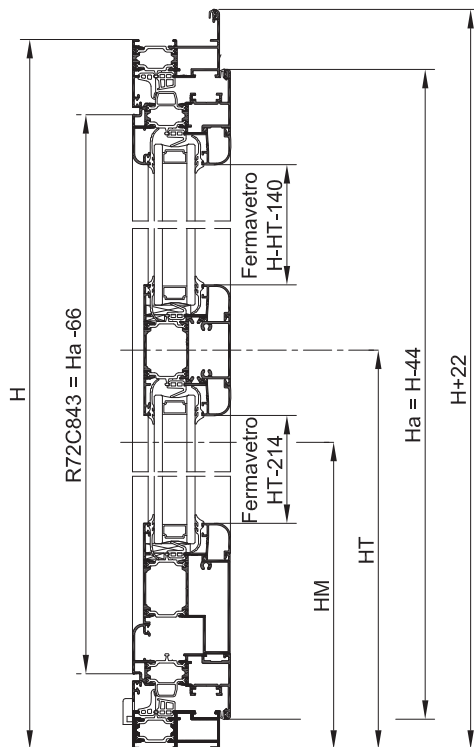
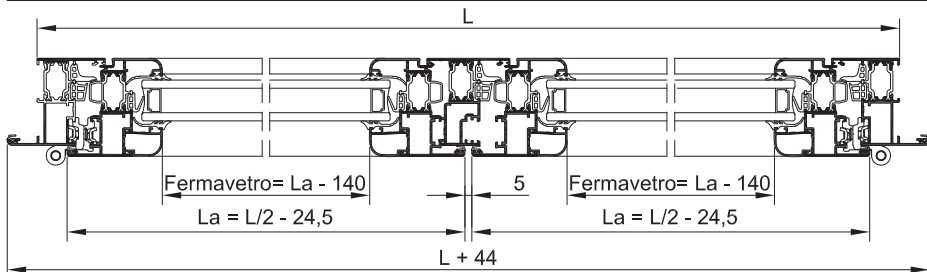
ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.
G.0154.EN	Guarnizione di battuta Weatherstrip of rabbet	4H 3L	G.0152.EN	Guarnizione esterna vetri da 3 mm mm 5 glass support external weatherstrip	4H 4L	G.0143.EN	Guarnizione aggiuntiva di precamera Additional central weatherstrip	3H 2L
G.0135.EN	Guarnizione di precamera Central Weatherstrip	3H 2L	G.0123.EN	Guarnizione su fermavetro spessore 5 mm Weatherstrip on glazing bead shim mm 5	4H 4L	G.0148.EN	Guarnizione sotto vetro Weatherstrip under glass	4H 4L

PORTA
BALCONE 2 ANTE
TWO-WINGS
BALCONY DOOR



N.B: - Le dimensioni di taglio e di lavorazione indicate nelle pagine seguenti sono state ottenute considerando le quote teoriche.
Pertanto è necessario verificare sempre le dimensioni dei profilati prima di effettuare i tagli.
Sapa declina ogni responsabilità per errori dovuti al mancato controllo da parte del costruttore.

N.B: - The cutting and processing dimensions, indicated in the following pages, are obtained considering theoretical values.
It is, therefore, always necessary to check the dimensions of the profiles before executing the cutting.
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PROFILATI
SECTIONS

Profilato Section	N° Pz.	Taglio Cut	N° Pz.	Taglio Cut
	2		1	
			1	
	4		4	
	1			
			2	
			2	
	4		4	
	1		1	

Misura da stabilire in funzione degli accessori utilizzati
Cut dimensions to define considering the used accessories

DIMENSIONE VETRI
GLASSES SIZE

N. 2 PEZZI HT - 180 La - 106	N.B.: Spessore vetro considerato 30 mm (6+15+4/4) Gioco perimetrale tra profilato e vetro 5 mm For glass with 30 mm thickness Space between glass and profile 5 mm
N. 2 PEZZI H - HT - 106 La - 106	

ACCESSORI
ACCESSORIES

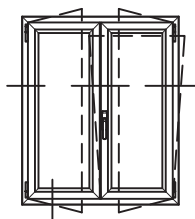


ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.
0409 (Mont.)	Squadretta d'angolo Corner joint	12	280.104.XX	Cerniera sfilabile a 2 ali Two-leaf slip-off hinge	6	1121.1	Cerniera sfilabile a 2 ali Two-leaf slip-off hinge	6
2006 (Mont.)	Squadretta di allineamento prof. compl "FUJI" Alignment corner joint coplanar profiles "FUJI"	8	280.011.XX	Cremonese reversibile "Vela" apertura Interna "Vela" reversible cremone bolt	1	870.2	Cremonese reversibile "Manon" apertura Interna "Manon" reversible cremone bolt	1
2013 (Mont.)	Squadretta di allineamento "FUJI" Alignment corner joint "FUJI"	2	280.151.55	Kit anta apribile Kit for side hung	1	1484.4	Innesti cremonese in nylon Nylon couplings	1 (Cp)
2020 (Mont.)	Squadretta di allineamento "FUJI" Alignment corner joint "FUJI"	4	280.155.05	Kit paletti per anta semifissa Kit bolt heads for semifixed leaf	1	1485	Terminale asta con puntale in acciaio zincato Terminal rod with galvanized steel bushing	1 (Cp)
2021 (Mont.)	Squadretta di allineamento int. "FUJI" Internal alignment corner joint "FUJI"	8	509.261.55	Paratempesta in nylon Nylon water drainage cover	2	1541.6	Paletto a manovra diretta in nylon/inox Direct-acting bolt operator kit in nylon/stainless steel	2
502.662.01	Squadretta a cianfrinare su prof. est. anta External corner joint to be crimped	8				1415	Incontro doppio per terminali Double striker for terminal	2
2415 (Master)	Basetta regolo mobile Plate for adjustable block	9				1875.1	Paratempesta in nylon Nylon water drainage cover	2
2422 (Master)	Regolo mobile L = 20mm Adjustable block L = 20mm	9						
A.0202.BA	Angolo stampato per fermavetro arrotondato Moulded corner for snap-on rounded glass beading	16	A.2832.AA	Supporto vetro Glass support	8			
A.0228.EN	Angolo stampato per guarnizione precamera Printed angle for central weatherstrip	4	A.3204.ZA	Cavalletto di giunzione telai-traversi Tjoint for frames and transoms	12			
A.2128.TN	Coppia tappi riporto centrale R72C843 pair of plug for central rabbet on R72C843	1	Comm.le	Tassello spessoramento vetri Shim for glasses	16			

GUARNIZIONI
WEATHERSTRIPS

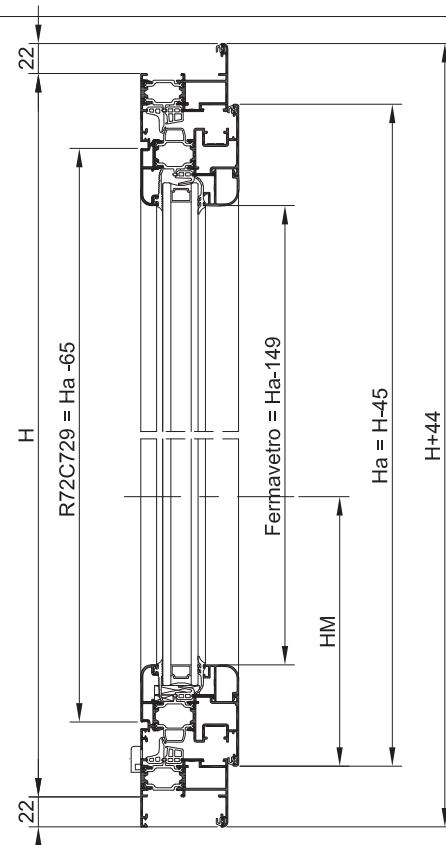
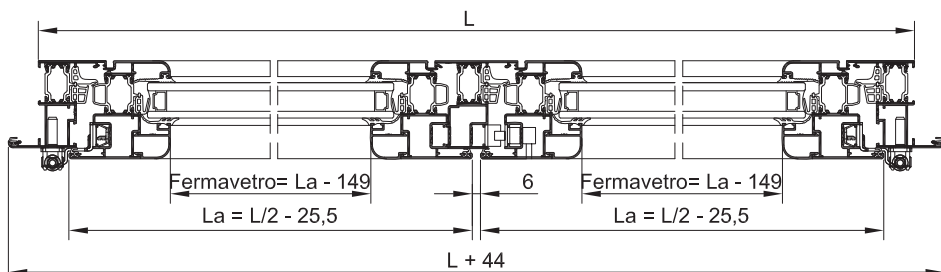
ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.
G.0154.EN	Guarnizione di battuta Weatherstrip of rabbet	6H 3L	G.0152.EN	Guarnizione esterna vetri da 3 mm mm 5 glass support external weatherstrip	4H 4L	G.0143.EN	Guarnizione aggiuntiva di precamera Additional central weatherstrip	3H 2L
G.0135.EN	Guarnizione di precamera Central Weatherstrip	3H 2L	G.0123.EN	Guarnizione su fermavetro spessore 5 mm Weatherstrip on glazing bead shim mm 5	4H 4L	G.0148.EN	Guarnizione sotto vetro Weatherstrip under glass	4H 4L

FINESTRA 2 ANTE
CON ANTA RIBALTA
WING WINDOW - OVERLAP
AND TILT-AND-TURN



N.B.: - Le dimensioni di taglio e di lavorazione indicate nelle pagine seguenti sono state ottenute considerando le quote teoriche.
Pertanto è necessario verificare sempre le dimensioni dei profilati prima di effettuare i tagli.
Sapa declina ogni responsabilità per errori dovuti al mancato controllo da parte del costruttore.

N.B.: - The cutting and processing dimensions, indicated in the following pages, are obtained considering theoretical values.
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PROFILATI
SECTIONS

Profilato Section	N° Pz.	Taglio Cut	N° Pz.	Taglio Cut
	2		1	
			1	
	4		4	
	1			
	4		4	

DIMENSIONE VETRI
GLASSES SIZE

N. 2 PEZZI		N.B.: Spessore vetro considerato 30 mm (6+15+4/4)
Ha - 115		Gioco perimetrale tra profilato e vetro 5 mm
La - 115		For glass with 30 mm thickness Space between glass and profile 5 mm

(*) Accessori da stabilire in funzione delle dimensioni dell'anta. Consultare catalogo Maico.

(*) Accessories to be established according to wing-dimension, please see catalogue Maico

Attenzione: in corrispondenza dei cardini inferiori utilizzare squadretta A.3103.ZA invece della 2021 (Mont.)

Attention: in corrspondence of the bottom hinges use corner joint A.3103.ZA instead of 2021 (Mont.)

ACCESSORI
ACCESSORIES

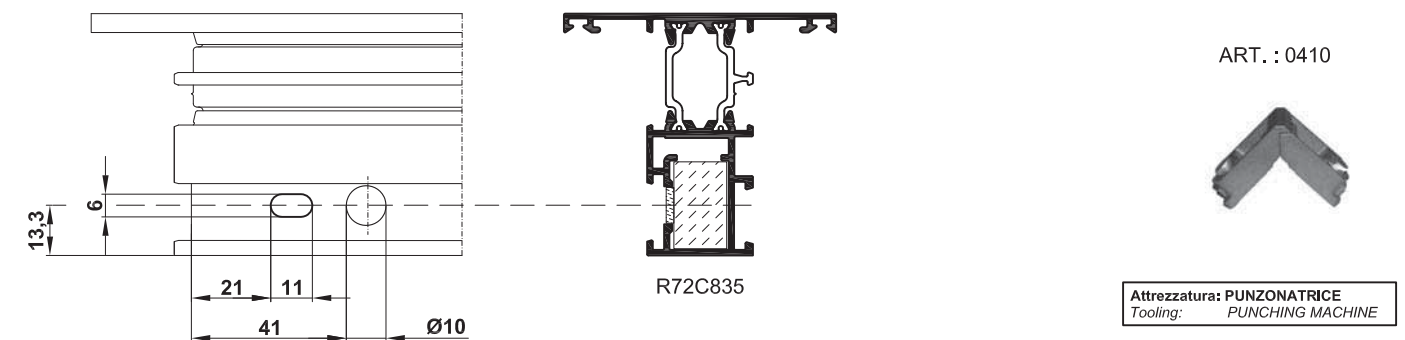
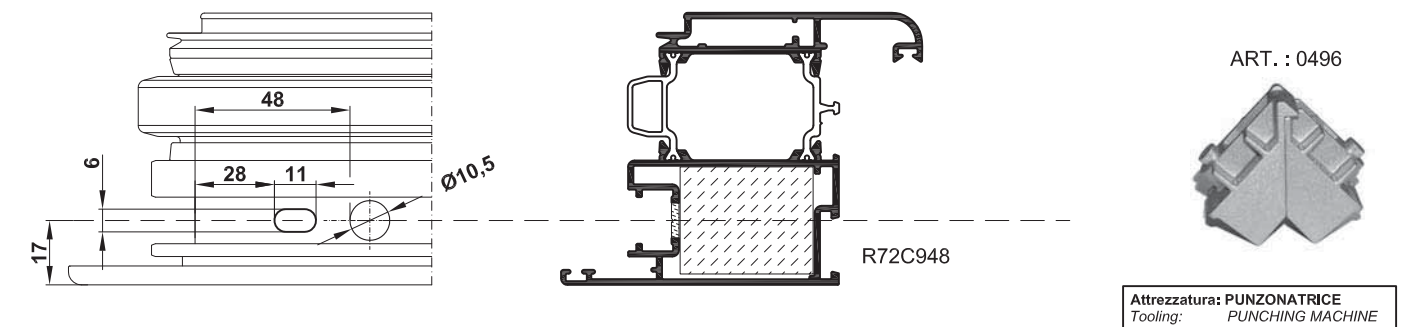
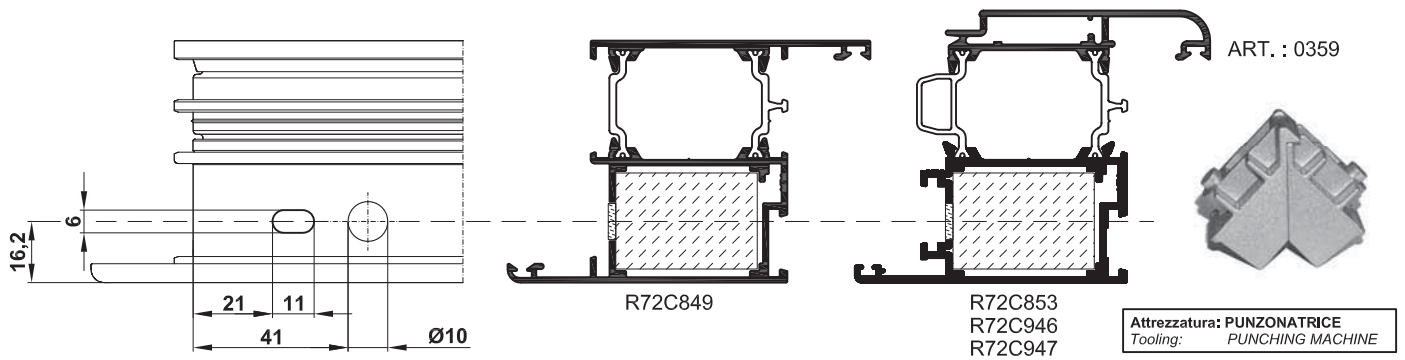
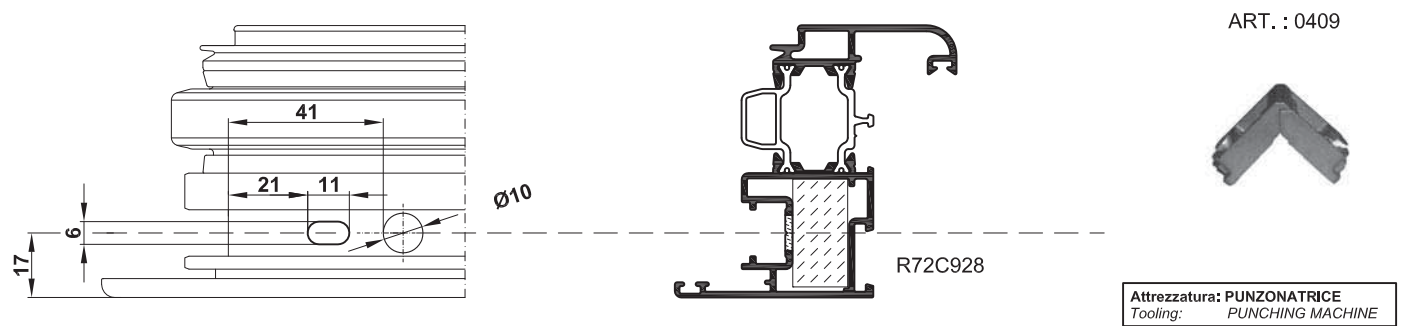
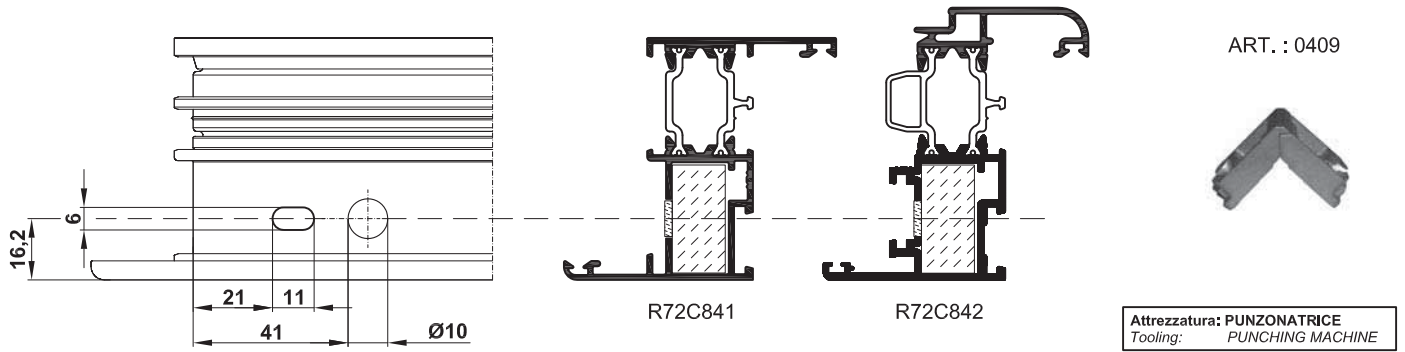


ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.
0409 (Mont.)	Squadretta d'angolo Corner joint	12	462681 (*)	Kit 2 ante con anta ribalta Kit 2 wings with tilt-and-turn	1	A.2137.TN	Coppia tappi per rporto centrale R72C729 Pair of plugs for central rabbet on profile R72C729	1
2006 (Mont.)	Squadretta di allineamento prof. compl "FUJI" Alignment corner joint coplanar profiles "FUJI"	8	201745 (*)	Cremonese Multi Matic Cremonese bolt Multi Matic	1	509.261.55	Cappetta scarico acqua (paratempsta) Water drain cover of nylon	2
2013 (Mont.)	Squadretta di allineamento "FUJI" Alignment corner joint "FUJI"	4	201751 (*)	Chiusura centrale Multi Matic Centre lock Multi Matic	1	2415 (Master)	Basetta per regolo mobile Plate for adjustable block	5
2020 (Mont.)	Squadretta di allineamento "FUJI" Alignment corner joint "FUJI"	4	206864 (*)	Frontale forbice Multi Matic Face plate scissor Multi Matic	1	2422 (Master)	Regolo mobile da 20 mm Adjustable block mm 20	5
2021 (Mont.)	Squadretta di allineamento Int. "FUJI" Internal alignment corner joint "FUJI"	6	207123 (*)	Braccio forbice Multi Matic Hinged scissor Multi Matic	1	510.491.55	Tappo rotondo copriforo diametro 12 mm Circular coverhole plug dia. mm 12	5
A.2910.AA	Squadretta a cianfr./spinare su prof. est. anta External corner joint to be crimped or pinned	8	221911 (*)	Asta a leva Multi Matic Bar overlapping Multi Matic	1	A.0228.EN	Angolo stampato per precamera R50TT-R72TT-R72TT1.3 Moulded corner for central weatherstrip R50TT-R72TT-R72TT1.3	4
A.2832.AA	Supporto vetro Glass support	6	59515	Maniglia rhapsody titanio Handle rhapsody Titanium	1	A.0202.BA	Angolo stampato per fermavetro arrotondato Moulded corner for snap-on rounded glass beading	8
Comm.le	Tassello spessoramento vetri Shim for glasses	6						
A.2832.AA	Supporto vetro Glass support	4	Per accessori e portate non Indicate consultare il catalogo del costruttore. For accessories and xxx not indicated, please refer the construction catalogue.					
A.3103.ZA	Squadretta aletta anta "ferramenta perimetrale" Corner joint to "perimetral fitting solution"	2						

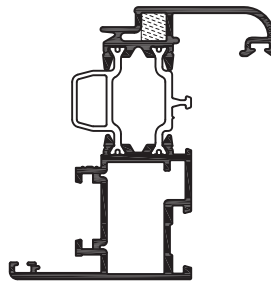
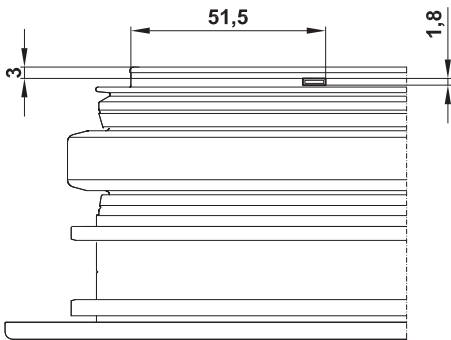
GUARNIZIONI
WEATHERSTRIPS

ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.
G.0154.EN	Guarnizione di battuta Weatherstrip of rabbet	6H 3L	G.0152.EN	Guarnizione esterna vetri da 3 mm mm 5 glass support external weatherstrip	4H 2L	G.0143.EN	Guarnizione aggiuntiva di precamera Additional central weatherstrip	3H 2L
G.0135.EN	Guarnizione di precamera Central Weatherstrip	3H 2L	G.0123.EN	Guarnizione su fermavetro spessore 5 mm Weatherstrip on glazing bead shim mm 5	4H 2L	G.0148.EN	Guarnizione sotto vetro Weatherstrip under glass	4H 2L

SQUADRETTA D'ANGOLO
CORNER JOINT



SQUADRETTA D'ANGOLO
CORNER JOINT

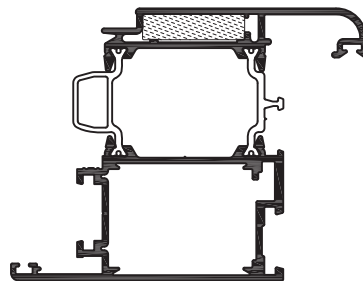
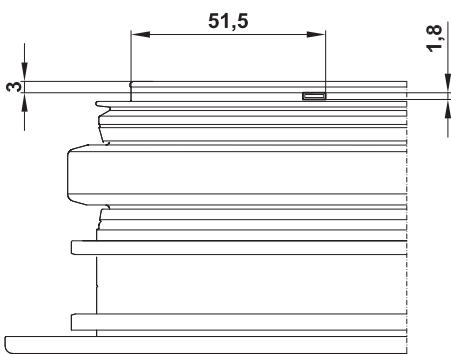


Per Profilati:
R72C842
R72C883
R72C905
R72C913

ART. : 502.662.01



Attrezzatura: CIANFRINATRICE MANUALE
Tooling: MANUAL CRIMPING TOOL

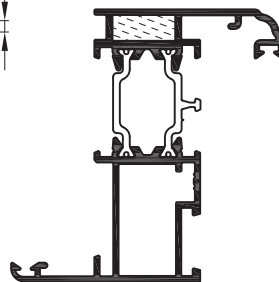
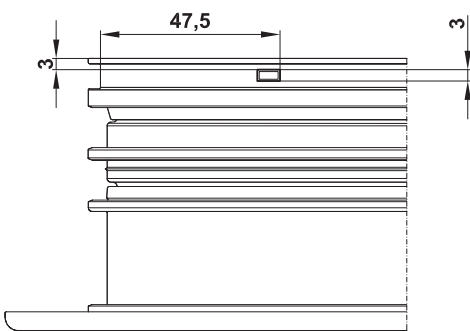


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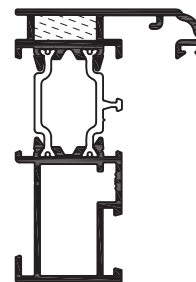
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Tooling: MANUAL CRIMPING TOOL



R72C882

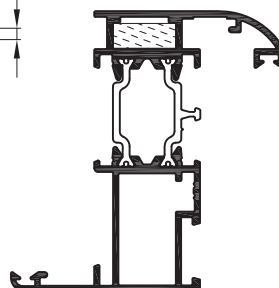
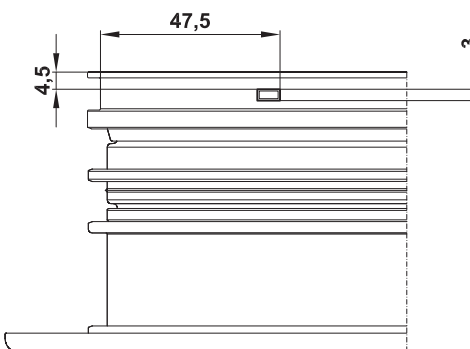


R72C881

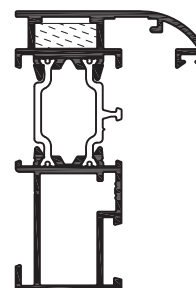
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Attrezzatura: CIANFRINATRICE MANUALE
Tooling: MANUAL CRIMPING TOOL



R72C945
R72C947



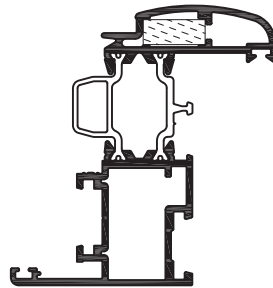
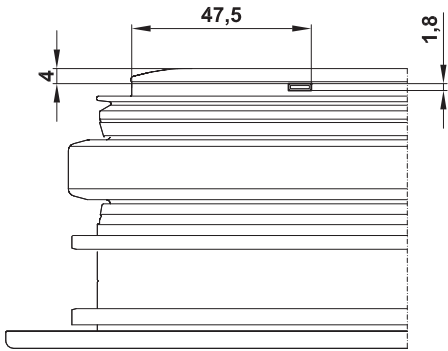
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ART. : 10006

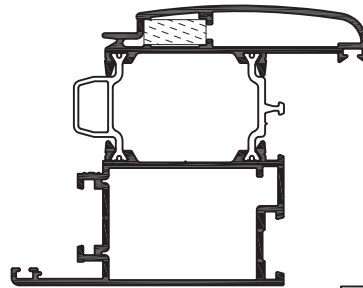


Attrezzatura: CIANFRINATRICE MANUALE
Tooling: MANUAL CRIMPING TOOL

SQUADRETTA D'ANGOLO
CORNER JOINT



R72C875

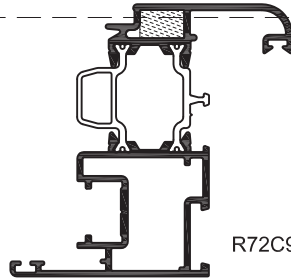
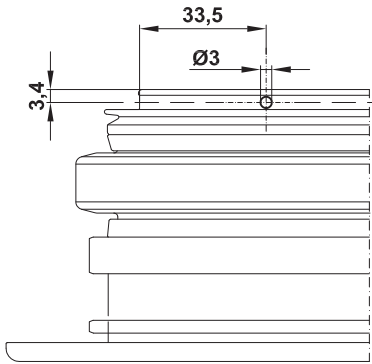


R72C900

ART. : 10006



Attrezzatura: CIANFRINATRICE MANUALE
Tooling: MANUAL CRIMPING TOOL



R72C928

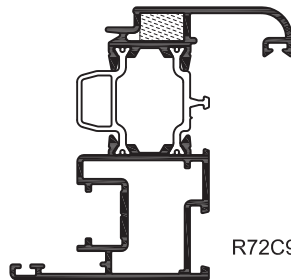
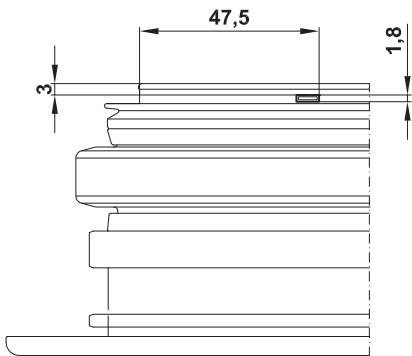
ART. : A.2910.AA



Spina 092 "Moticelli"



Attrezzatura: TRAPANO
Tooling: DRILL



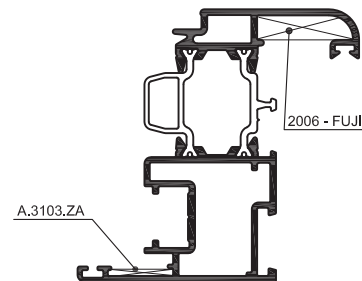
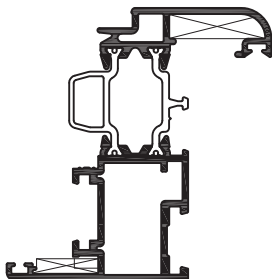
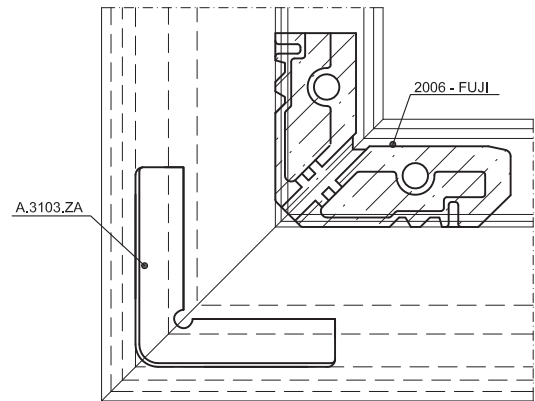
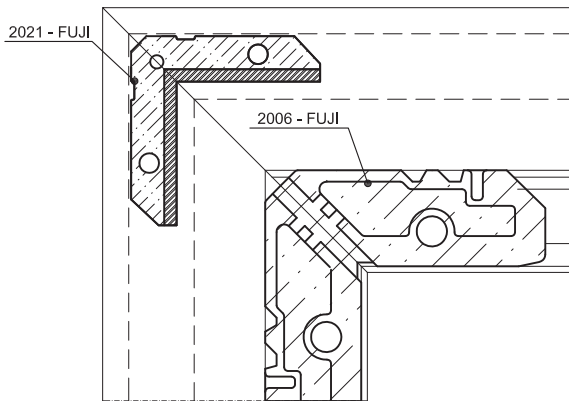
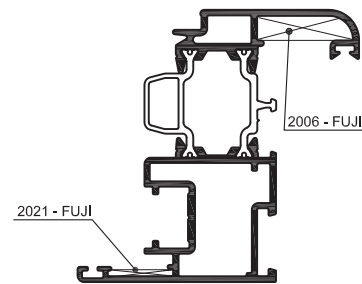
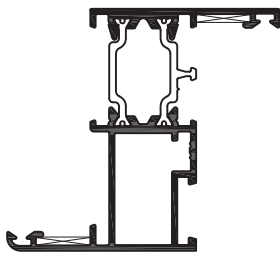
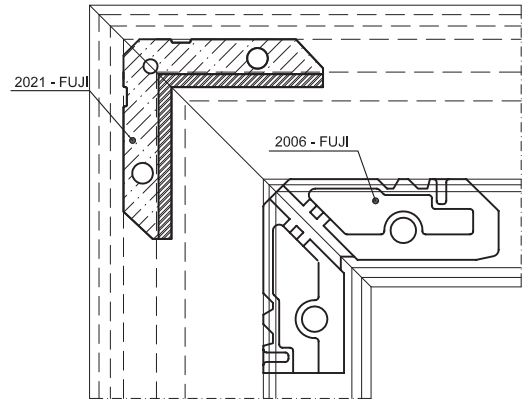
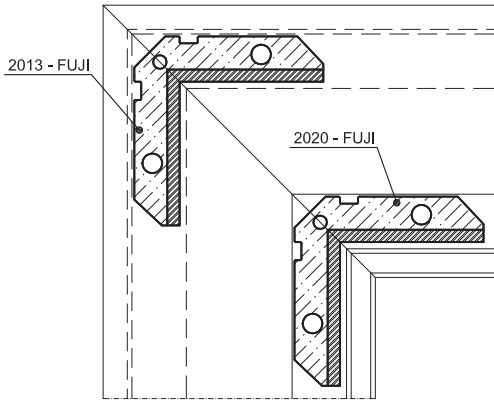
R72C928

ART. : A.2910.AA



Attrezzatura: CIANFRINATRICE MANUALE
Tooling: MANUAL CRIMPING TOOL

APPLICAZIONE SQUADRETTE DI ALLINEAMENTO
ALIGNMENT CORNER JOINTS APPLICATION

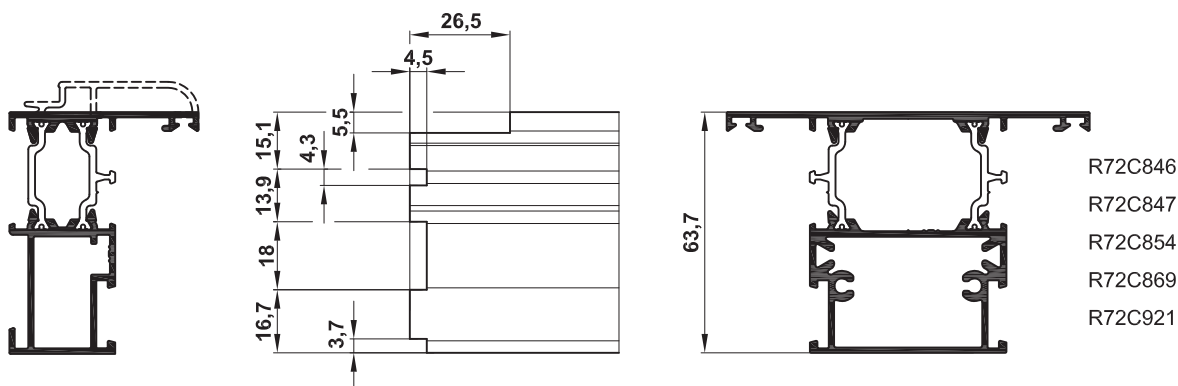


Attenzione : in corrispondenza del cardine inferiore, utilizzare squadretta A.3103.ZA invece della 2021 (Mont.)
Attention : in corrispondence of the bottom hinge use corner joint A.3103.ZA instead of 2021 (Mont.)

- Le squadrette di allineamento su alette, devono essere incollate con colle per alluminio di tipo epossidico bicomponente o di tipo poliuretano monocomponente

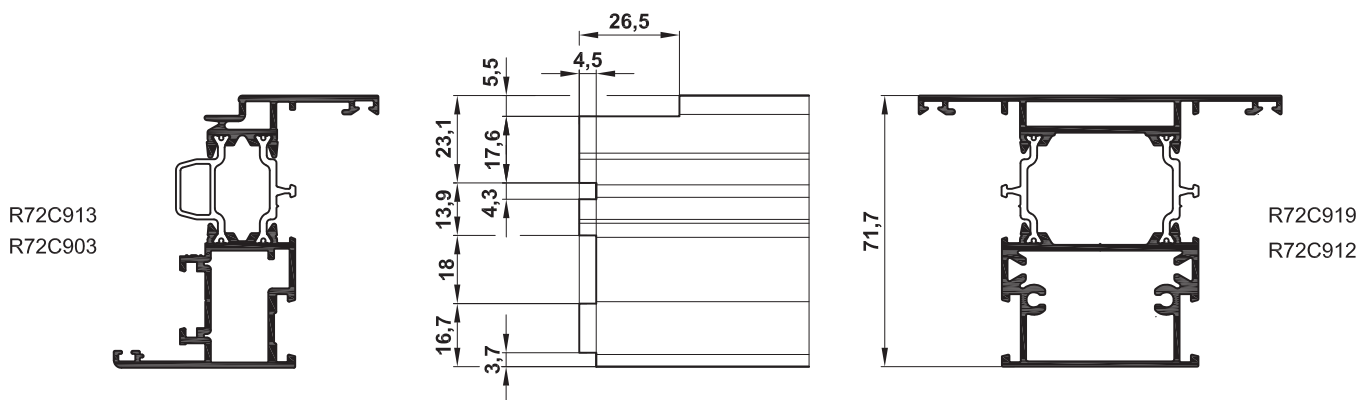
- The alignment corner joint on rabbets, must always be glued with epoxy adhesives for aluminum two-component or polyurethane component type

INTESTATURA FASCE E ZOCCOLI
BUTTING HORIZONTAL PANELS - SKIRTING BOARDS



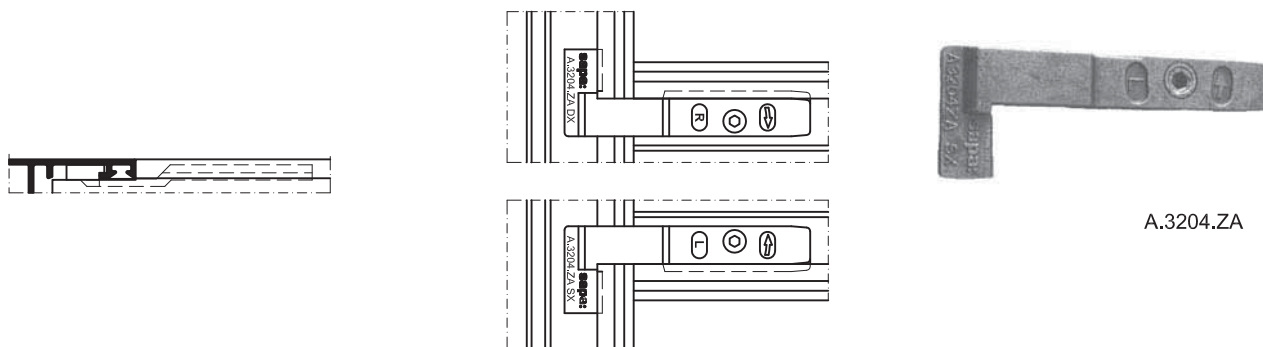
Attrezzatura: GRUPPO FRESE
Tooling: MILLING CUTTER GROUP

INTESTATURA FASCE E ZOCCOLI PER ANTE COMPLANARI
BUTTING HORIZONTAL PANELS - SKIRTING BOARDS FOR COPLANAR WINGS



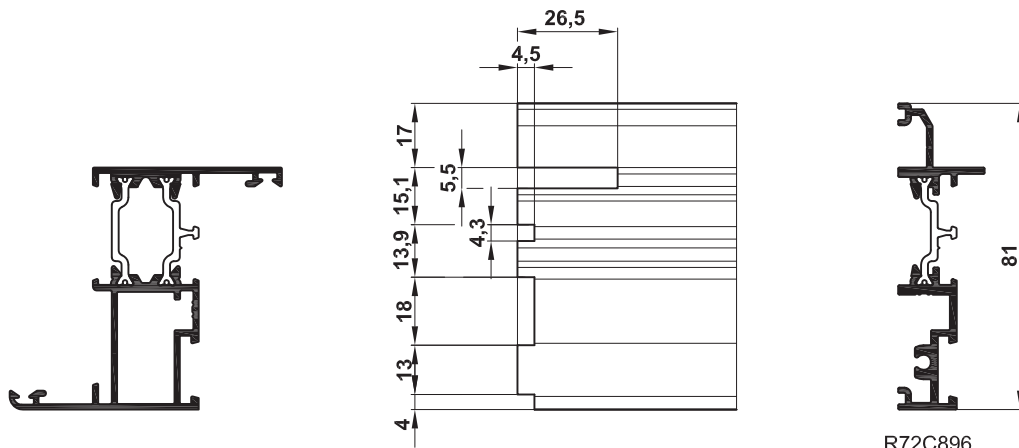
Attrezzatura: GRUPPO FRESE
Tooling: MILLING CUTTER GROUP

MONTAGGIO CAVALLOTTO A.3204.ZA
ASSEMBLY TJOINTS A.3204.ZA



A.3204.ZA

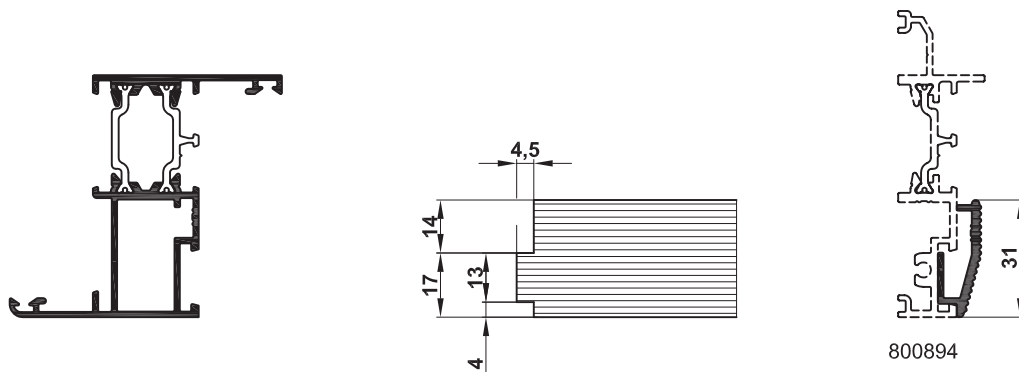
INTESTATURA SOGLIA PROFILATO R72C896
BUTTING FRAME SECTIONS R72C896



R72C896

Attrezzatura: GRUPPO FRESE
Tooling: MILLING CUTTER GROUP

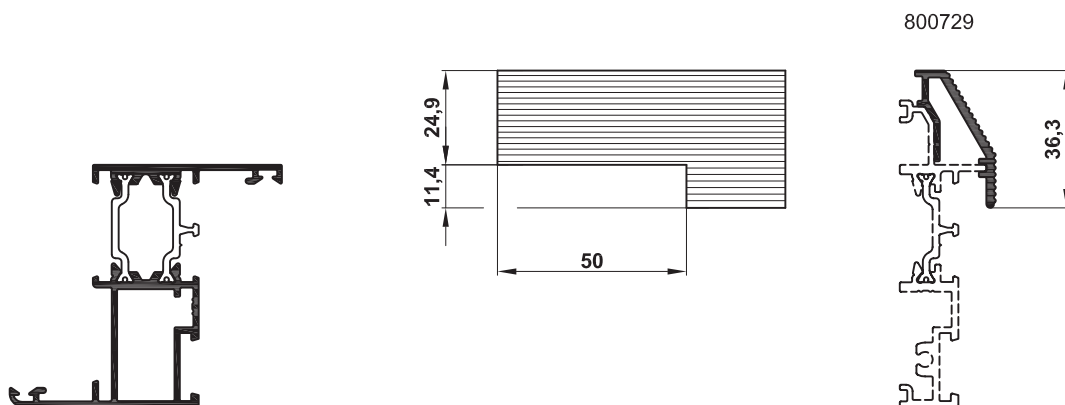
INTESTATURA SOGLIA PROFILATO 800894
BUTTING FRAME SECTIONS 800894



800894

Attrezzatura: GRUPPO FRESE
Tooling: MILLING CUTTER GROUP

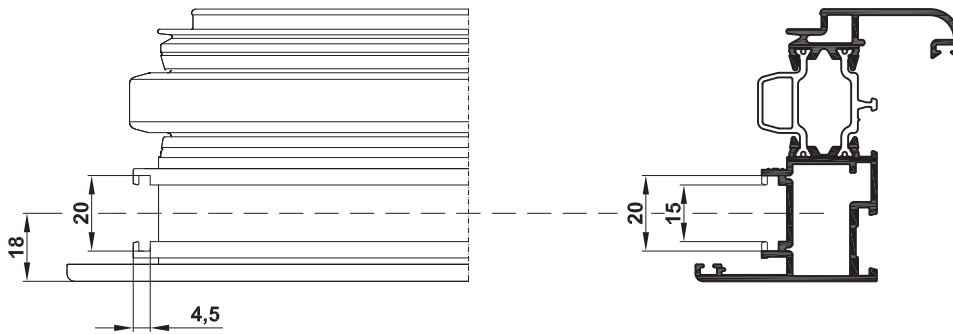
INTESTATURA SOGLIA PROFILATO 800729
BUTTING FRAME SECTIONS 800729



800729

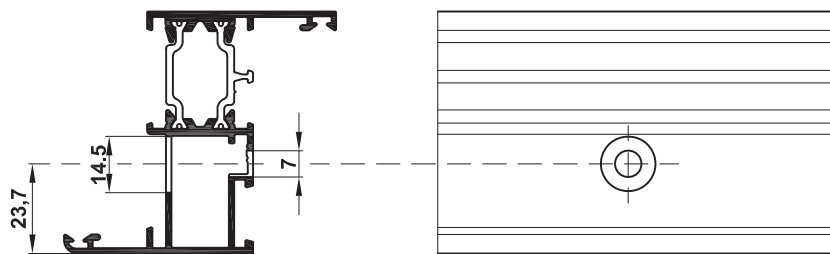
Attrezzatura: GRUPPO FRESE
Tooling: MILLING CUTTER GROUP

ASPORTAZIONE DENTINI PER INSERIMENTO ASTA
TOOTH REMOVAL FOR ROD NOTCH



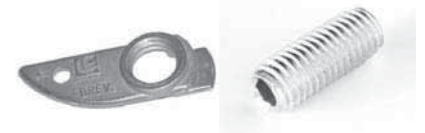
Attrezzatura: PUNZONATRICE
Tooling: PUNCHING MACHINE

FORATURA PER REGOLO MOBILE
PUNCHING FOR ADJUSTABLE BLOCK

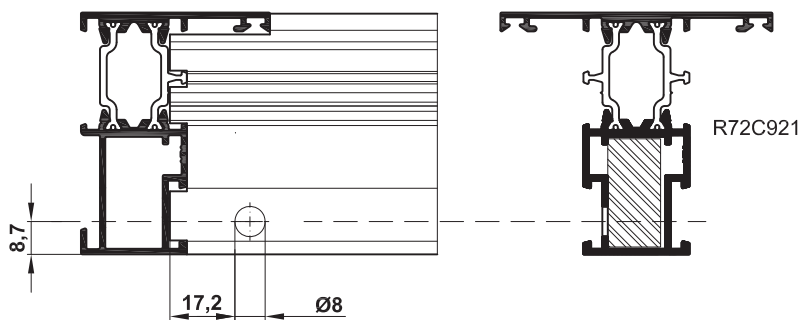


ART. : 2415

ART. : 2421
ART. : 2422
ART. : 2423
ART. : 2424
ART. : 2425



FORATURA CAVALOTTO PER TELAIO
PUNCHING FOR TRANSOM CONNECTION FOR FRAME

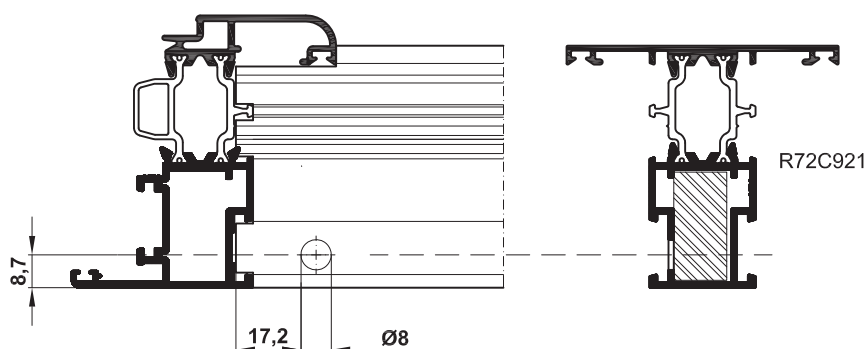


ART. : 0575



Attrezzatura: TRAPANO
Tooling: DRILL

FORATURA CAVALOTTO PER ANTA
PUNCHING FOR TRANSOM CONNECTION FOR WING



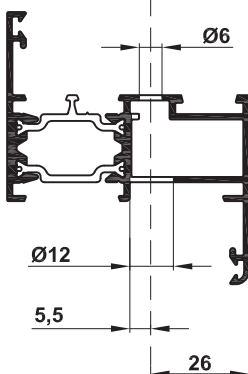
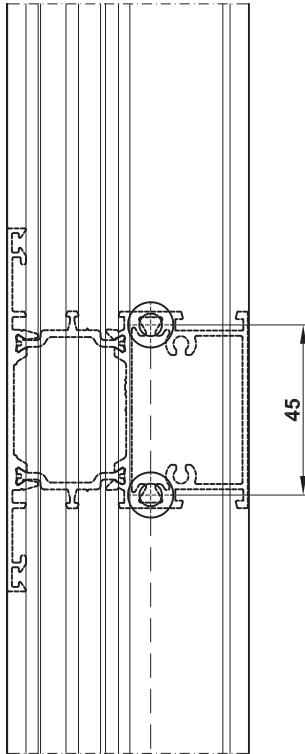
ART. : 0575



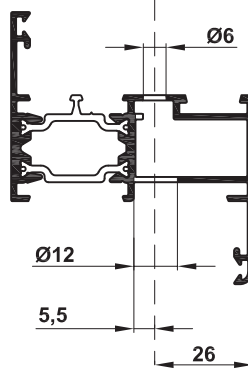
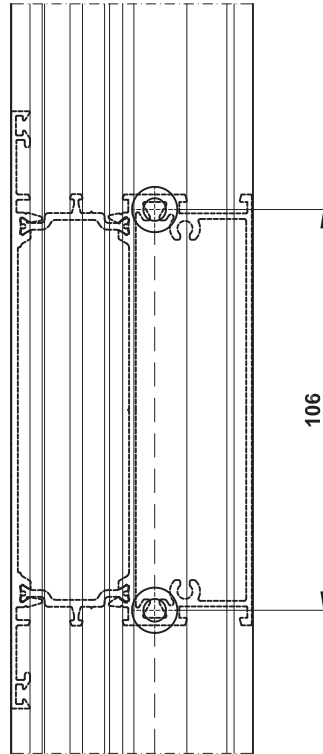
Attrezzatura: TRAPANO
Tooling: DRILL

FORATURA UNIONE FASCE - ZOCOLI PER TELAI
PUNCHING FOR HORIZONTAL PANELS CONNECTION - SKIRTING BOARD TO FRAME

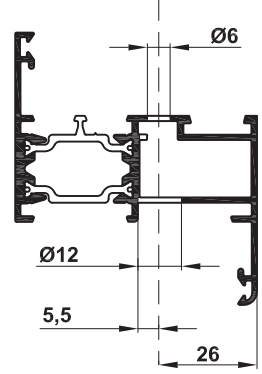
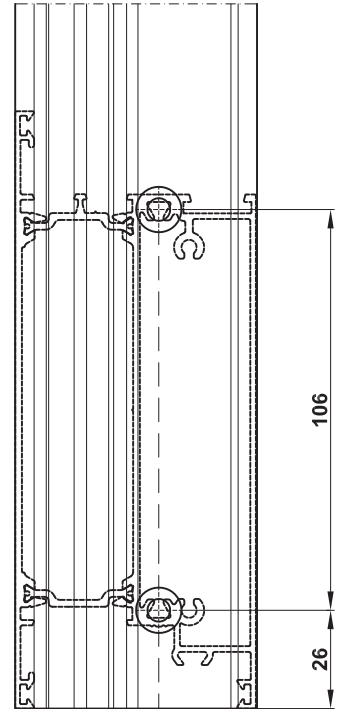
R72C869



R72C846



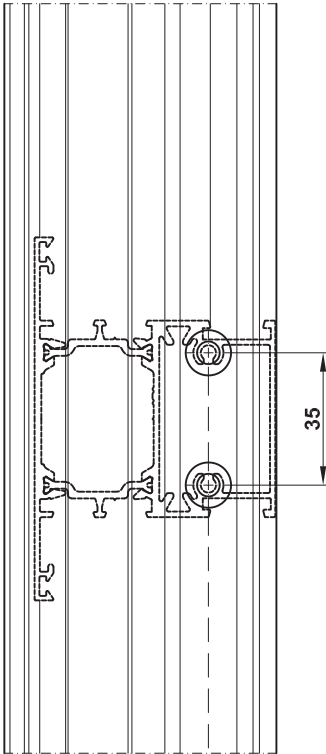
R72C847



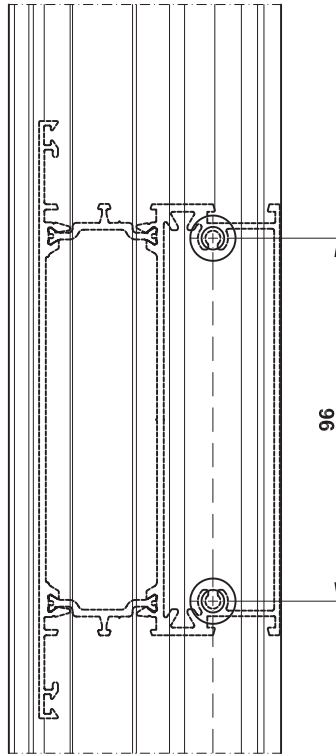
Attrezzatura: TRAPANO
Tooling: DRILL

FORATURA UNIONE FASCE - ZOCOLI PER ANTA
PUNCHING FOR HORIZONTAL PANELS CONNECTION - SKIRTING BOARD TO WING

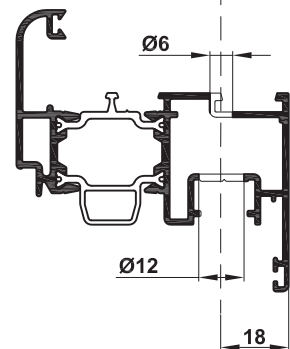
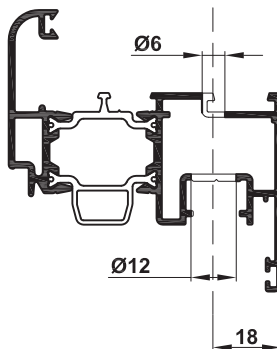
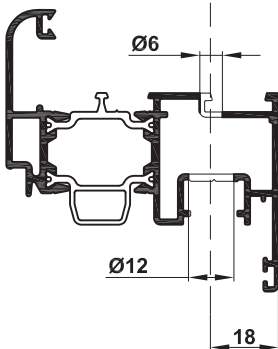
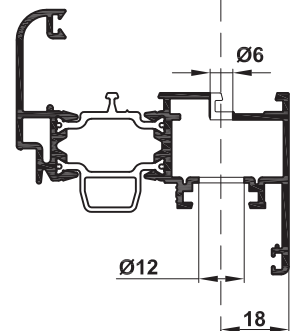
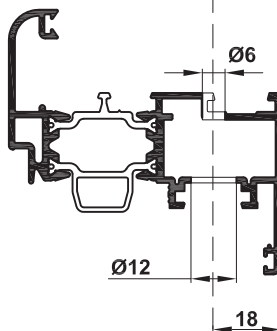
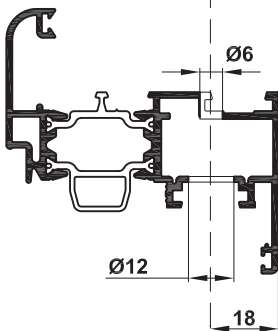
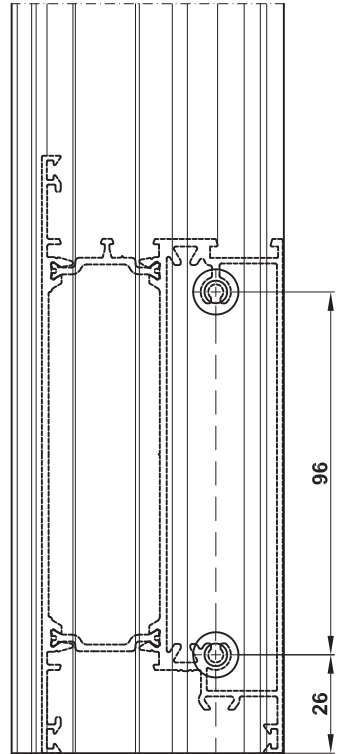
R72C869



R72C846



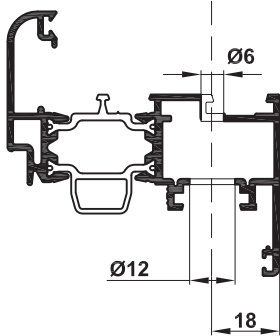
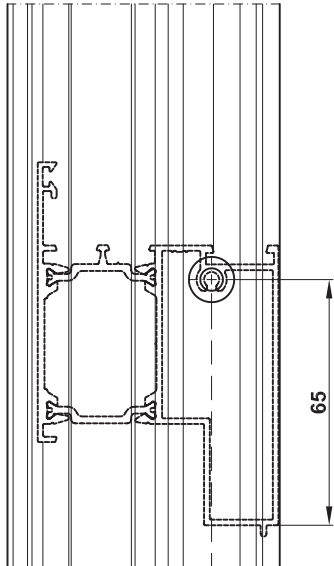
R72C847



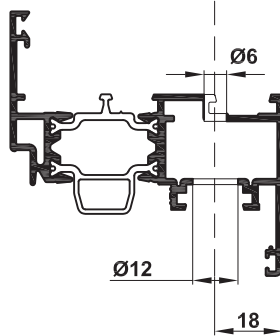
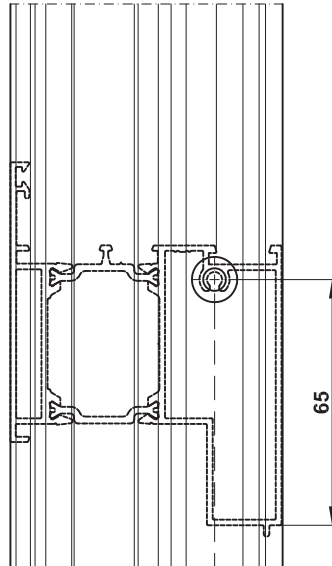
Attrezzatura: TRAPANO
Tooling: DRILL

FORATURA UNIONE FASCE - ZOCCOLI
PUNCHING FOR HORIZONTAL PANELS CONNECTION - SKIRTING BOARD

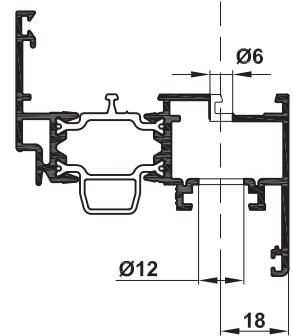
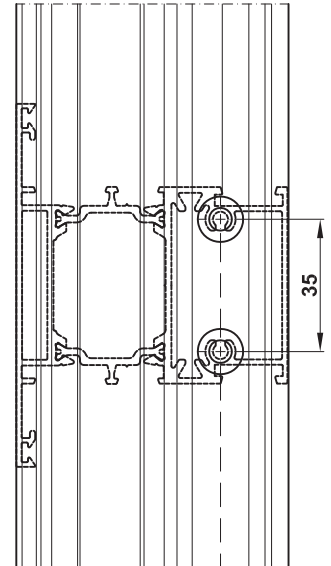
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R72C912



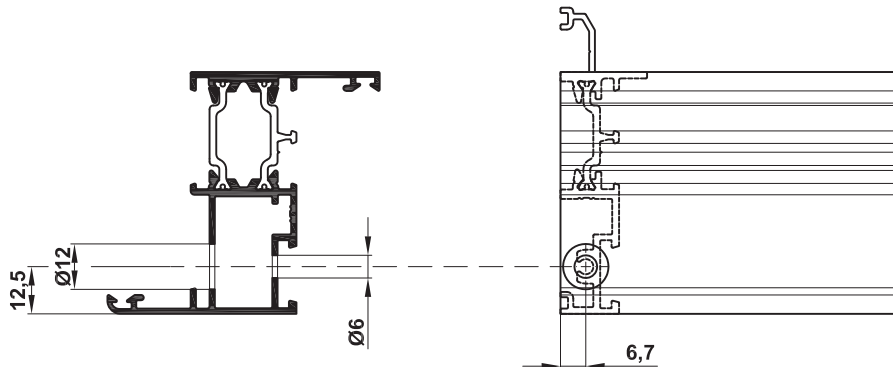
R72C919



Attrezzatura: TRAPANO
Tooling: DRILL

FORATURA UNIONE SOGLIA
PUNCHING FOR FRAME SECTION

R72C896



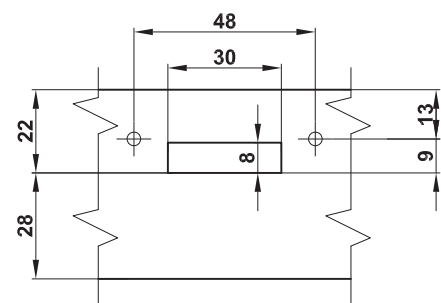
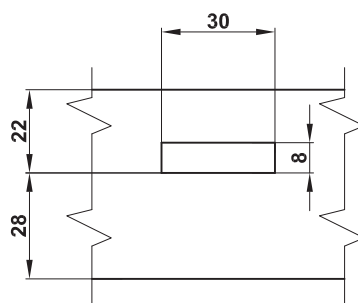
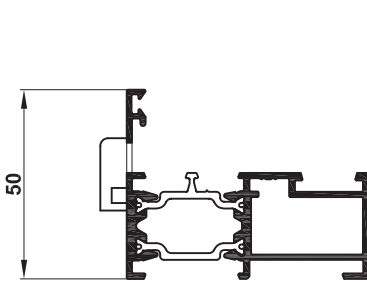
Attrezzatura: TRAPANO
Tooling: DRILL

LAVORAZIONE DEFLUSSO ACQUA
TOOLING WATER DRAINAGE

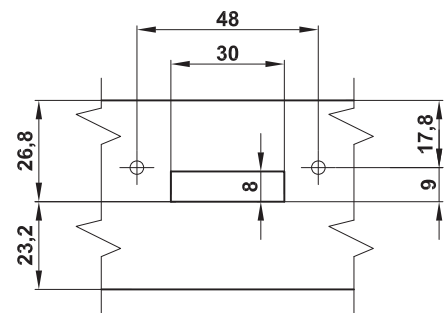
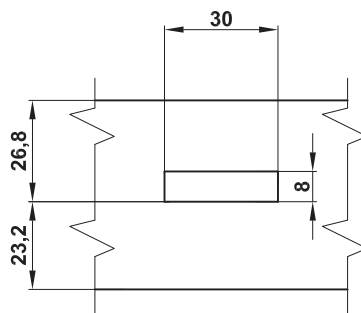
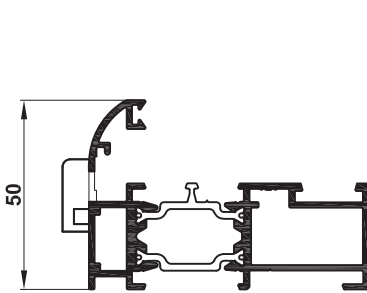
ART. 509.260.55
509.261.55



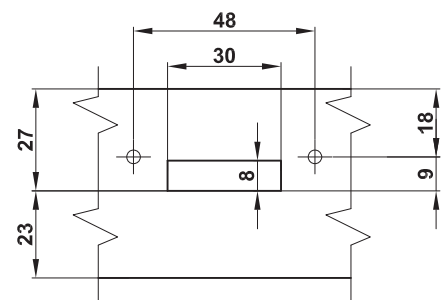
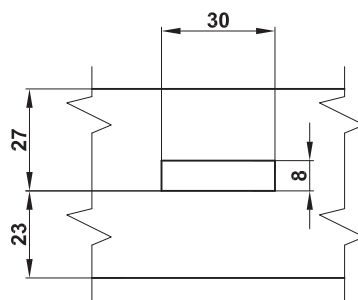
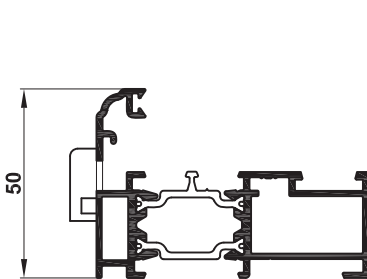
ART. 509.264.55



Attrezzatura: PUNZONATRICE
Tooling: PUNCHING MACHINE



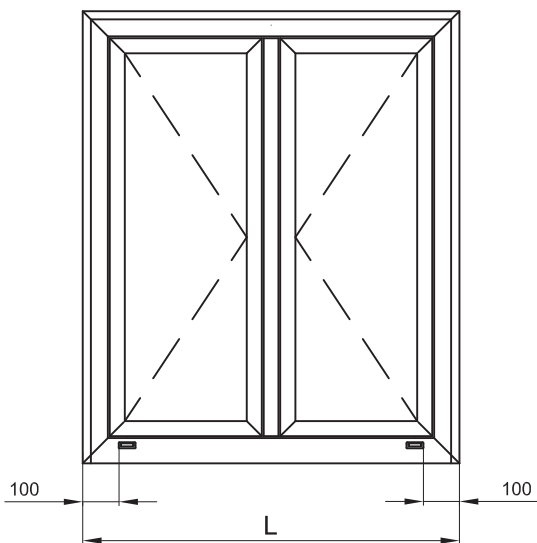
Attrezzatura: PANTOGRAFO
Tooling: PANTOGRAPH



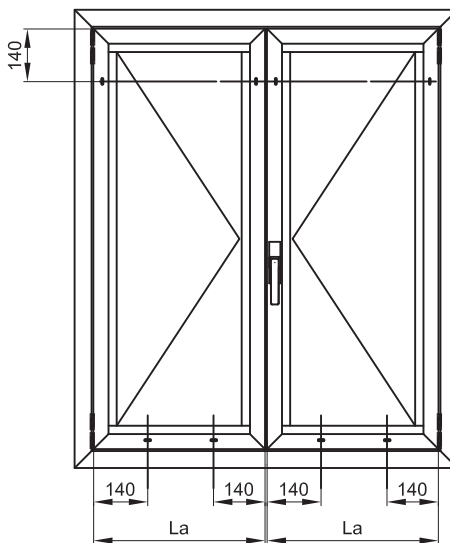
Attrezzatura: PUNZONATRICE
Tooling: PUNCHING MACHINE

LAVORAZIONI PER SCARICO ACQUA E VENTILAZIONE VETRI
TOOLING FOR WATER AND GLASS VENTILATION

Posizione scarichi acqua
Water drainages position



Posizione ventilazione vetri
Glass ventilation position

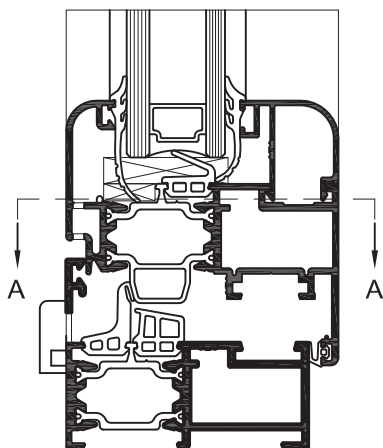


Scarichi acqua:

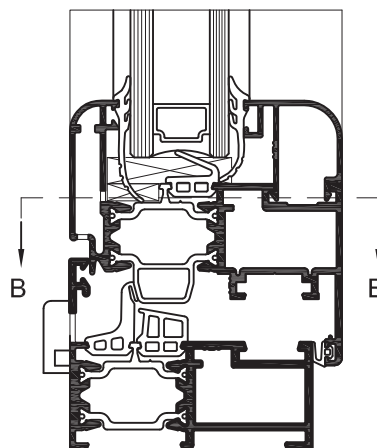
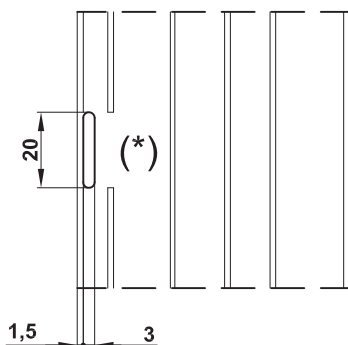
- N° 2 Per $L \leq 1400$ mm
- N° 3 Per $L > 1400$ mm ≤ 2100 mm
- N° 4 Per $L > 2100$ mm ≤ 2800 mm

Water drains:

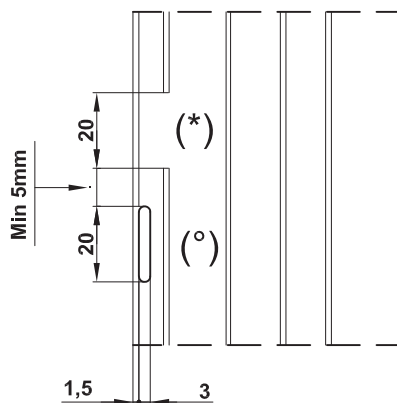
- N° 2 For $L \leq 1400$ mm
- N° 3 For $L > 1400$ mm ≤ 2100 mm
- N° 4 For $L > 2100$ mm ≤ 2800 mm



Sez. A-A



Sez. B-B



(*) Asportazione dentino solo su profilato anta lato inferiore
in corrispondenza scarico acqua

*Teeth removal only on wing section
corresponding to the lower side, water drainage hole*

(*) Asola da 20x 5mm spostata rispetto all'altra lavorazione
(°) Asola da 20x 3mm in corrispondenza dello scarico acqua

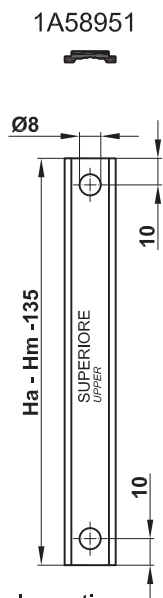
() Slot 20x5mm not corresponding to the other tooling
(°) Slot 20x3mm corresponding to the water drainage hole*

Attrezzatura: TRAPANO - PANTOGRAFO
Tooling: DRILL - PANTOGRAPH

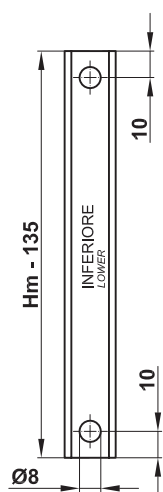
LAVORAZIONE PUNTALI, INNESTI E CREMONESE
TOOLING TERMINALS, COUPLING AND CREMONE BOLT



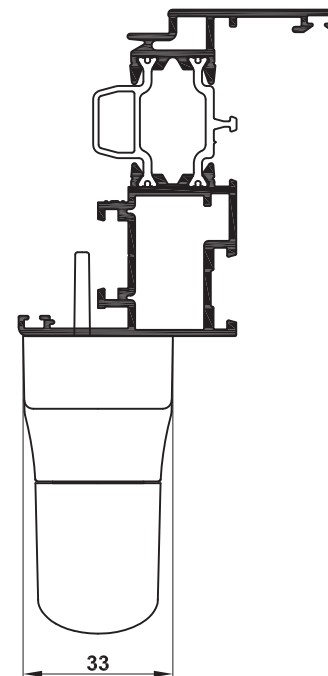
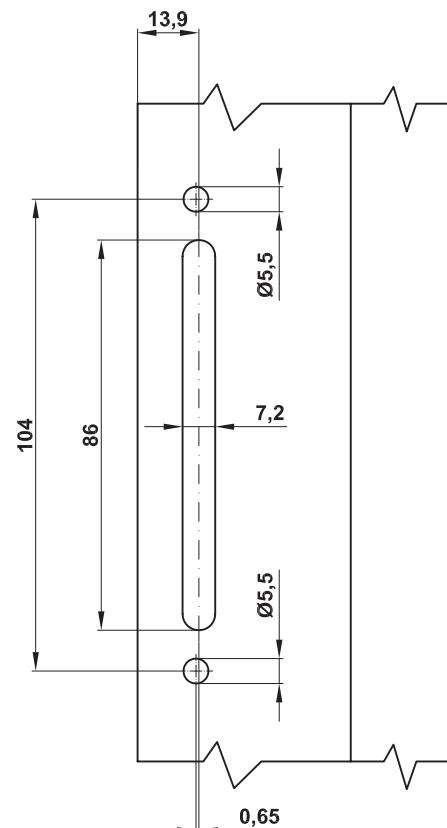
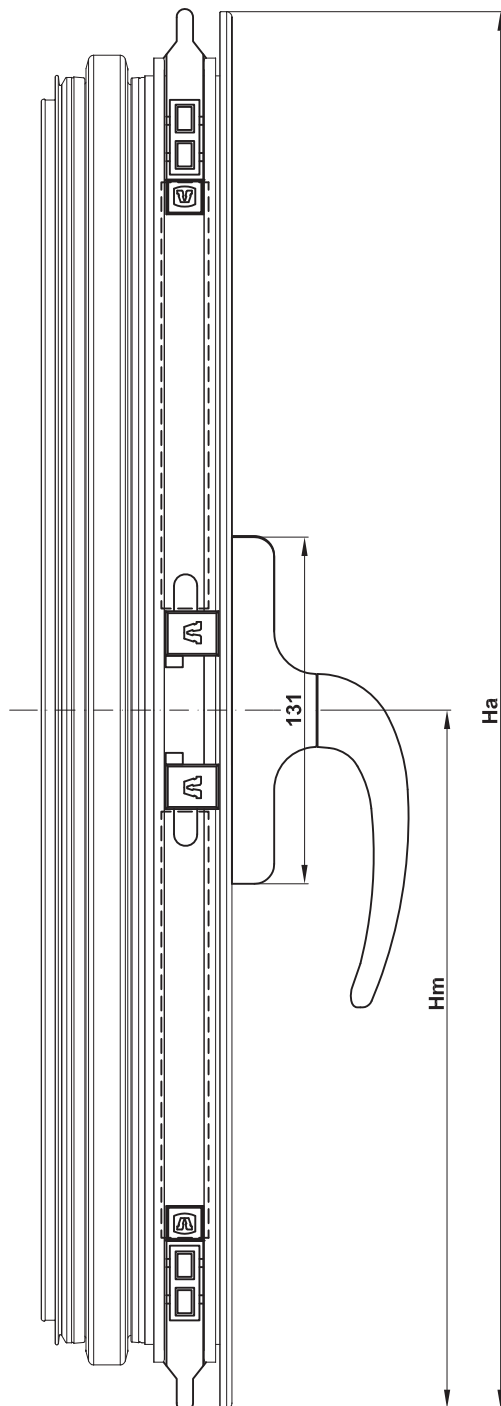
Puntali in zama
Zamak terminals
Art. 280.095.05



Innesti
cremonese
Coupling
internal opening
Art. 280.029.55



Puntali in zama
Zamak terminals
Art. 280.095.05



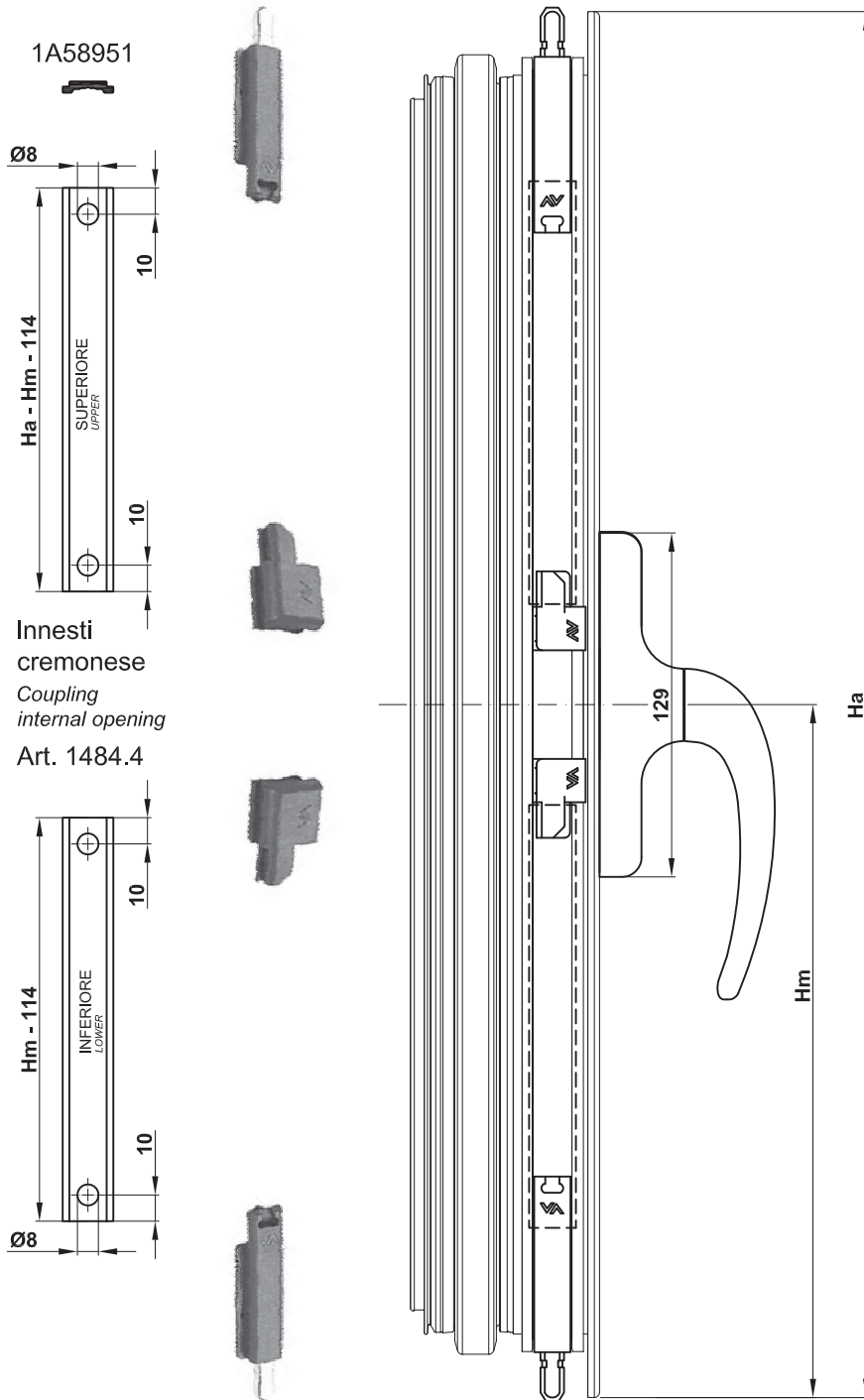
Cremonese reversibile "VELA"
Reversible cremone "VELA"
Art. 280.011.XX

Attrezzatura: PUNZONATRICE
Tooling: PUNCHING MACHINE

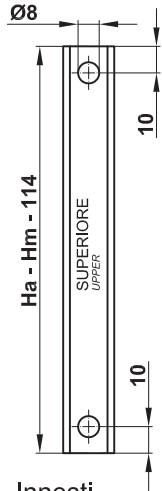
LAVORAZIONE PUNTALI, INNESTI E CREMONESE
TOOLING TERMINALS, COUPLING AND CREMONE BOLT

AVSAVIO

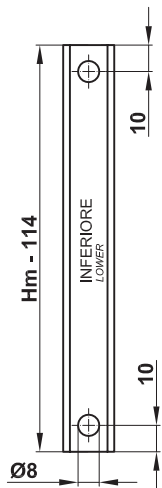
Puntali in acciaio zincato
Steel terminals
Art. 1485



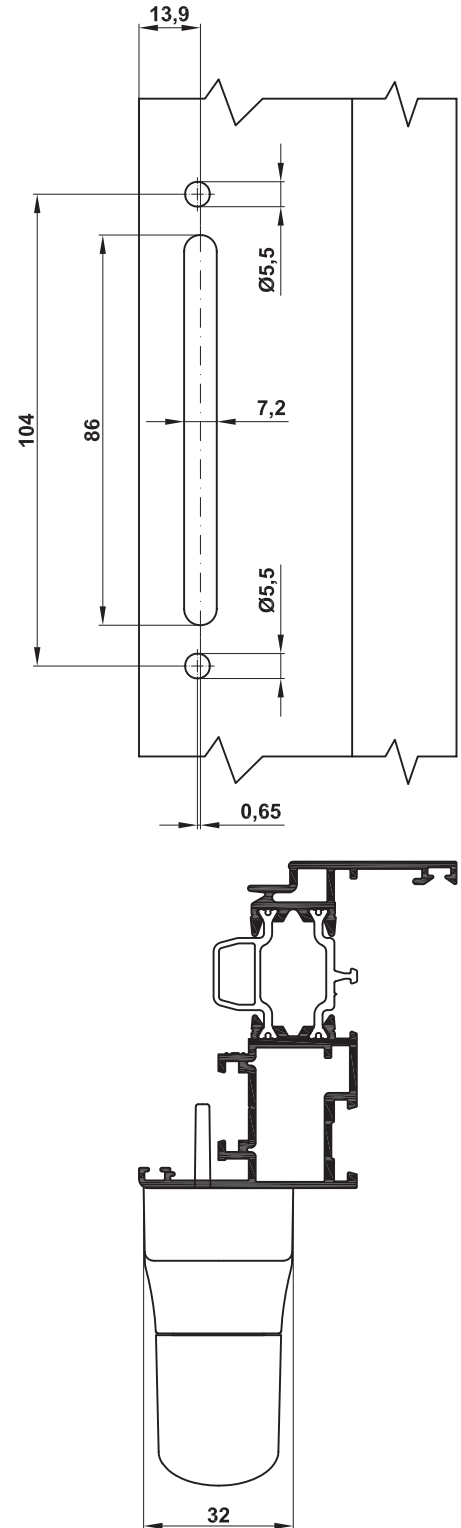
1A58951



Innesti
cremonese
Coupling
internal opening
Art. 1484.4



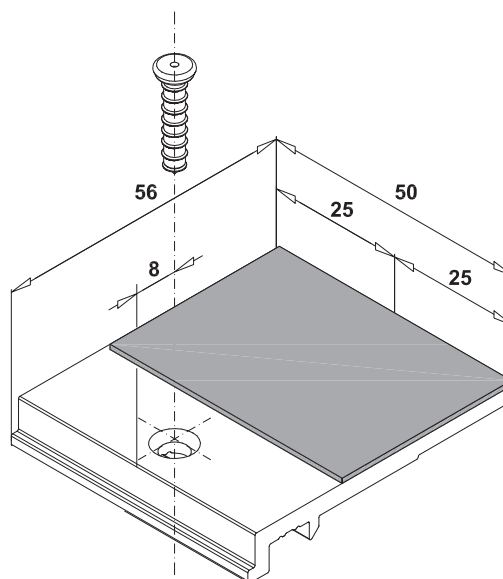
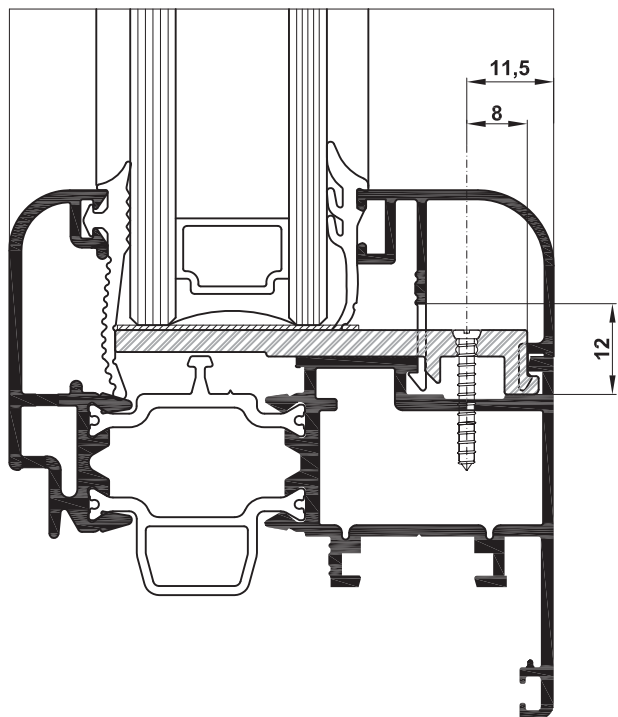
Puntali in acciaio zincato
Steel terminals
Art. 1485



Cremonese reversibile "MANON"
Reversible cremone "MANON"
Art. 870.2

Attrezzatura: PUNZONATRICE
Tooling: PUNCHING MACHINE

APPOGGIO VETRO " A.2832.AA "
GLASS SUPPORT " A.2832.AA "



ART. " A.2832.AA "

* ART. " A.2832.AA "

**Inserire solo sul traverso inferiore posizionato
come da schema riportato sul catalogo Pag. F3-72CE-A-04**
*Insert only on the lower transom.
Please, see the scheme on the catalogue Pag. F3-72CE-A-04*

